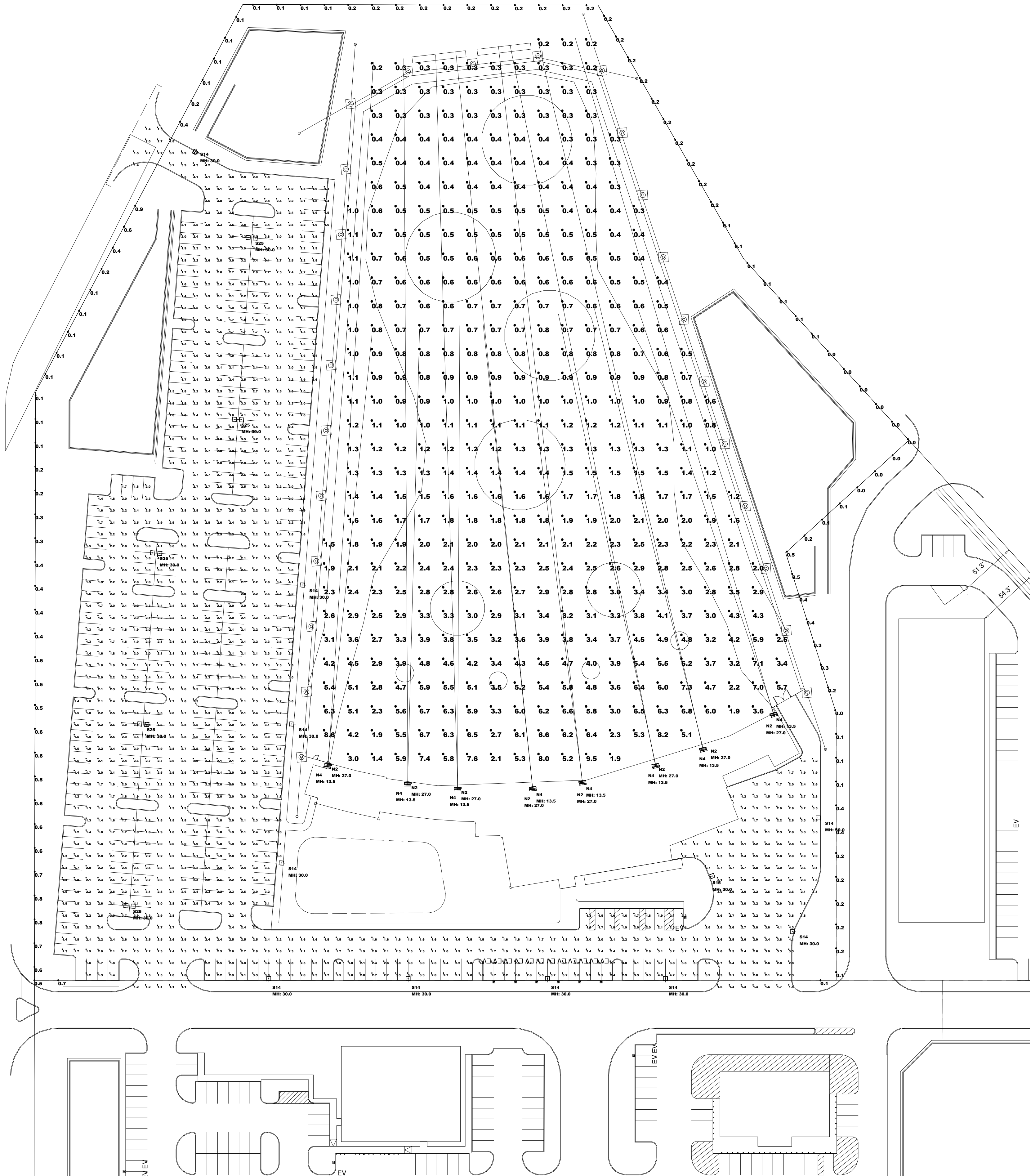


View 1:SITE
Scale: 1 inch= 50 Ft.



- THIS DRAWING REPRESENTS DESIGN INTENT AND CONCEPT ONLY.
The designer and associates are responsible for the visual aspects of this production, and all specifications provided relate solely to the appearance of the lighting and not matters of electrical or structural soundness and / or safety. The implementation of this design must comply with the most stringent applicable International, EEC, local safety and fire codes. This designer and associates are not qualified to determine life safety or ADA compliance, electrical or structural appropriateness of the design and will not assume responsibility for damages resulting through improper engineering and/or implantation in the handling of this lighting design. The designer agrees to make prompt correcting alterations to any specification found to be incompatible with proper fire and safety precautions.

- THIS PLAN HAS BEEN PREPARED BY FACILITY SOLUTIONS GROUP.
and Information should be considered proprietary and confidential. This document is prepared for a specific site and incorporates calculations and layout recommendations based on data supplied by outside sources at time of conception. Example: Client, Contractors, Field Surveys, Vendors, Lab Tested or computer generated IES Files. Changes in area geometry, color schemes, mounting heights, and object density within the plan may produce illumination values different from the averages reflect herein.

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lighting > electrical > energy
technology > signs

FACILITY SOLUTIONS GROUP

Due to changing lighting ordinances it is the contractors responsibility to submit the site photometrics and luminaire specs to the local inspector before ordering to ensure this plan complies with local lighting ordinances

This lighting design is based on information supplied by others. Facility Solutions Group is not responsible for the accuracy of the electrical supply, area geometry and objects within the lighted area may produce illumination values different from the predicted results shown on this layout.

This layout is based on IES files that were last tested or computer generated. Actual results may vary

Calculated by: J. DURAN

Checked By:

Date: 12/2/2024

TOPGOLF MONMOUTH COUNTY, NJ
PARKING LOT & PROPERTY LINE

LIGHTING LAYOUT w/LED IN PARKING LOT
USING PROPOSED LOCATIONS

Page 1 of 3

Project

Catalog #

Type

Prepared by

Notes

Date

McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Product Features

- Interactive Menu
- Ordering Information

Mounting Details

Optical Distributions

Product Specifications

Energy and Performance Data

Control Options

- Quick Facts
- Lumen packages range from 4,200 - 80,800 (34W - 640W)

Efficacy up to 156 lumens per watt

Options to meet Bay American and other domestic requirements

Dimensional Details

Number of Light Sources	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"
1.4	15-1/2"	7"	10"	10-5/8"	15-9/16"					
5.6	21-5/8"	7"	10"	10-5/8"	15-9/16"					
7.6	27-5/8"	7"	10"	10-5/8"						
9-10	33-3/4"	7"	10"							

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (1.2A)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.58	1.16	1.79	2.31	2.94	3.56	4.05	4.71	5.34	5.87
Input Current (208V AC)	0.36	0.61	0.91	1.27	1.67	2.06	2.46	2.86	3.26	3.66
Input Current (240V AC)	0.25	0.35	0.50	0.70	0.90	1.10	1.30	1.50	1.70	1.90
Input Current (277V AC)	0.23	0.46	0.70	0.93	1.18	1.39	1.65	1.90	2.20	2.38
Input Current (347V AC)	0.20	0.39	0.57	0.78	0.95	1.15	1.36	1.54	1.72	1.92
Input Current (480V AC)	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.45

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Ordering Information

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
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2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (1A)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.51	1.02	1.53	2.04	2.55	3.06	3.56	4.06	4.57	5.07
Input Current (208V AC)	0.32	0.54	0.82	1.08	1.36	1.64	1.92	2.20	2.48	2.76
Input Current (240V AC)	0.22	0.34	0.50	0.70	0.90	1.10	1.30	1.50	1.70	1.90
Input Current (277V AC)	0.21	0.42	0.63	0.84	1.05	1.26	1.46	1.66	1.86	1.98
Input Current (347V AC)	0.17	0.34	0.50	0.68	0.84	1.00	1.16	1.32	1.50	1.68
Input Current (480V AC)	0.14	0.28	0.42	0.56	0.70	0.84	0.98	1.12	1.26	1.38

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Mounting Details

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Optical Distributions

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Energy and Performance Data

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Control Options

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (1.2A)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.58	1.16	1.79	2.31	2.94	3.56	4.05	4.71	5.34	5.87
Input Current (208V AC)	0.36	0.61	0.91	1.27	1.67	2.06	2.46	2.86	3.26	3.66
Input Current (240V AC)	0.25	0.35	0.50	0.70	0.90	1.10	1.30	1.50	1.70	1.90
Input Current (277V AC)	0.23	0.46	0.70	0.93	1.18	1.39	1.65	1.90	2.20	2.38
Input Current (347V AC)	0.20	0.39	0.57	0.78	0.95	1.15	1.36	1.54	1.72	1.92
Input Current (480V AC)	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.45

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (1A)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.51	1.02	1.53	2.04	2.55	3.06	3.56	4.06	4.57	5.07
Input Current (208V AC)	0.32	0.54	0.82	1.08	1.36	1.64	1.92	2.20	2.48	2.76
Input Current (240V AC)	0.22	0.34	0.50	0.70	0.90	1.10	1.30	1.50	1.70	1.90
Input Current (277V AC)	0.21	0.42	0.63	0.84	1.05	1.26	1.46	1.66	1.86	1.98
Input Current (347V AC)	0.17	0.34	0.50	0.68	0.84	1.00	1.16	1.32	1.50	1.68
Input Current (480V AC)	0.14	0.28	0.42	0.56	0.70	0.84	0.98	1.12	1.26	1.38

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (800mA)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.39	0.77	1.13	1.54	1.95	2.36	2.67	3.03	3.39	3.69
Input Current (208V AC)	0.22	0.44	0.62	0.84	1.06	1.28	1.50	1.66	1.87	2.02
Input Current (240V AC)	0.19	0.38	0.54	0.76	0.95	1.16	1.38	1.48	1.62	1.74
Input Current (277V AC)	0.17	0.34	0.47	0.72	0.93	1.05	1.19	1.31	1.42	1.52
Input Current (347V AC)	0.15	0.28	0.38	0.60	0.83	0.97	1.07	1.15	1.22	1.30
Input Current (480V AC)	0.11	0.24	0.32	0.48	0.60	0.70	0.80	0.77	0.86	0.92

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Normal Power Lumens (500mA)

Number of Light Sources	1	2	3	4	5	6	7	8	9	10
Input Current (120V AC)	0.31	0.62	0.93	1.24	1.55	1.86	2.17	2.48	2.79	2.99
Input Current (208V AC)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	1.90
Input Current (240V AC)	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.70
Input Current (277V AC)	0.17	0.34	0.51	0.68	0.85	1.02	1.19	1.31	1.42	1.52
Input Current (347V AC)	0.15	0.28	0.38	0.60	0.83	0.97	1.07	1.15	1.22	1.30
Input Current (480V AC)	0.11	0.24	0.32	0.48	0.60	0.70	0.80	0.77	0.86	0.92

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

McGraw-Edison GLEON Galleon

Control Options

Product Family	Light Source	Configuration	Drive Current	Color Temperature	Warranty	Installation	Mounting	Finish
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens
Standard Arm (Drilling Pattern)	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens	4000K Lumens

Notes:
1. All dimensions are in inches unless otherwise noted.
2. For additional performance data, please reference the Cooper Supplemental Performance Data.

INPUT POWER	OPTICS	APPLICATIONS
100V-240V acie sensing 200V-300V acie sensing 480V with neutral can be step into 277V 480V w/o neutral can be stepped down to transformer with QLED system	Various symmetrical and asymmetrical rectangular and round patterns with built-in glare cone utilizing TRS lens technology	Optical beamtypes used for Topology HX44 and S210 standard view available for spot and glare control
		RATINGS
		D66, 40° in 15°C 5.25"

GAMCANGER® Electrical Data	GAMCANGER® 500
Input Watts	600w
Kw. Br. Avg.	0.52
*Lumen Output	36000
Lumen/Watt	35
CCT	5,200
CR	>90
Voltage	77Vdc
CURRENT	amps
277V	1.88
240V	2.12
208V	> 5
120V	4.84

The specifications listed were obtained under optimal testing conditions. Please note that changes in options, features and conditions may result in slightly different performance characteristics in any future.

Araps are based on single phase.
3 Phase systems will be balanced per pole
480 and 347V - Will be stepped down to 277V.



IBEX
INTERNATIONAL DESIGN
FOR THE 21ST CENTURY

TECHNICAL GUIDE

NONRESIDENTIAL MANDATORY MEASURES

TABLE 5.106.8 [N]
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
Maximum Allowable Backlight Rating (B)					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
Maximum Allowable Uplight Rating (U)					
For area lighting ³	N/A	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	N/A	U1	U2	U3	U4
Maximum Allowable Glare Rating (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5 – 1 MH from property line	N/A	G0	G0	G1	G1
Luminaire front hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting."

○ N2
GEN 3 SMALL w/BALLGUARDS

☐ N4 _____
GEN 3 SMALL w/BALLGUARDS

Pole	x-loc	y-loc	height○	N2	□ N4	Total	kw
L1	36.8	-187.5	13.5ft		1	1	0.5
L2	14.4	-125.1	13.5ft		1	1	0.5
L3	5.4	-83.9	13.5ft		1	1	0.5
L4	-1.5	-21	13.5ft		1	1	0.5
L5	-1.6	21.1	13.5ft		1	1	0.5
L6	5.5	83.9	13.5ft		1	1	0.5
L7	14.5	125	13.5ft		1	1	0.5
L8	37.3	190.2	13.5ft		1	1	0.5
U1	38.4	-186.8	27ft	1		1	0.5
U2	16.3	-124.6	27ft	1		1	0.5
U3	7.4	-83.5	27ft	1		1	0.5
U4	0.5	-21	27ft	1		1	0.5
U5	0.4	21	27ft	1		1	0.5
U6	7.5	83.5	27ft	1		1	0.5
U7	16.4	124.5	27ft	1		1	0.5
U8	39.5	189.1	27ft	1		1	0.5
Total				8	8	16	8.3

NOTES:

- PER TOWNSHIP OF NEPTUNE - LAND DEVELOPMENT ORDINANCE:

MEDIUM ACTIVITY:

- 1FC MINIMUM

- 4:1 AVG/MIN

- 10:1 MAX/MIN

- DO NOT PLACE POLES ON ISLANDS, EXCEPT AS REQUIRED TO AVOID UNDERGROUND CONFLICTS

Calculation Summary												
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	CV	UG	Description	PtSpcLr	PtSpcTb
DRIVING RANGE	Illuminance	Fc	2.07	9.5	0.2	10.35	47.50	N.A.	N.A.	readings taken at grade	20	20
PARKING LOT	Illuminance	Fc	2.36	4.7	1.1	2.15	4.27	N.A.	N.A.	readings taken at grade	10	10
PROPERTY LINE	Illuminance	Fc	0.25	0.9	0.0	N.A.	N.A.	N.A.	N.A.	readings taken at grade	20	N.A.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Luminaire Watts	[MANUFAC]	Description	Filename
	5	S25	Back-Back	0.900	26198	258	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	2@180 GLEON-SA4D-830-U-5WQ; TWO TYPE 5 SQUARE WIDE LED - 27" POLE W/3' BASE	GLEON-SA4D-830-U-5WQ.ies
	1	S15	Single	0.900	26198	258	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	2@180 GLEON-SA4D-830-U-5WQ; TYPE 5 SQUARE WIDE LED - 27" POLE W/3' BASE	GLEON-SA4D-830-U-5WQ.ies
	10	S14	Single	0.900	20186	258	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	GLEON-SA4D-830-U-SL4-HSS; TYPE 4 LED W/HOUSE-SIDE SHIELD - 27" POLE W/3' BASE	GLEON-SA4D-830-U-SL4-HSS.ies
	8	N4	Single	0.850	57767	647.2	QUALITE SPORTS LIGHTING, LLC	GC600-4X4-ITL90970	ITL90970-4x4 GONIOPHOTOMETRY.IES
	8	N2	Single	0.850	63033	631.8	QUALITE SPORTS LIGHTING, LLC	GC600-2-ITL90967	ITL90967-2 GONIOPHOTOMETRY.IES

- THIS DRAWING REPRESENTS DESIGN INTENT AND CONCEPT ONLY.

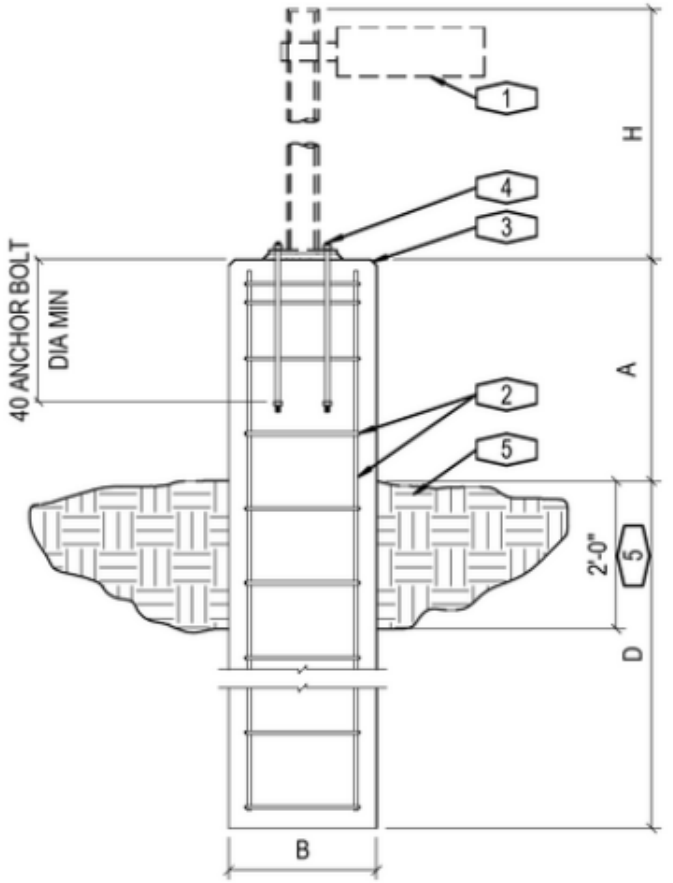
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- THIS PLAN HAS BEEN PREPARED BY FACILITY SOLUTIONS GROUP.

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LIGHTPOLE FOUNDATIONS				
H	PIER FOUNDATION			
	A	B	D	REINFORCING (NOTE 2)
0-12'	2'-6"	18" MIN	4'-6"	(6)#6 VERT, #3@12" TIES
13-20'	2'-6"	18" MIN	6'-0"	(6)#6 VERT, #3@12" TIES
20-30'	2'-6"	18" MIN	7'-0"	(6)#6 VERT, #3@12" TIES



KEYNOTES:

- | | |
|---|---|
| 1 | LIGHT POLE AND FIXTURE, SEE ELECTRICAL DRAWINGS |
| 2 | PROVIDE VERTICAL REINFORCING AND TIES PER SCHEDULE. PROVIDE (2) TIES WITHIN TOP 5' @ 3' OC |
| 3 | 3/4" CHAMFER, TYP |
| 4 | HEADED ANCHOR RODS, SIZE AS REQUIRED BY LIGHT POLE MANUFACTURER |
| 5 | MECHANICALLY COMPACT THE TOP 24" OF EARTH AROUND PIER FOUNDATION AFTER CONCRETE HAS CURED AT LEAST 48 HOURS |

NO SCALE

TYP SITE LIGHT POLE BASE

Checked By:

Date: 12/2/2024

TOPGOLF MONMOUTH COUNTY, NJ
PARKING LOT & PROPERTY LINE

LIGHTING LAYOUT w/LED IN PARKING LOT USING PROPOSED LOCATIONS