

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: 767603

Luminaire Tested: **GSL-XX-1000-HPS-XX-3V-SG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 767603
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSL-XX-1000-HPS-XX-3V-SG-XX-HS
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-TYPE III DISTRIBUTION
Light Source: 1000 WATT HPS CLEAR E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 82687.6 lumens
Efficiency: 59.1%
Efficacy: 82.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

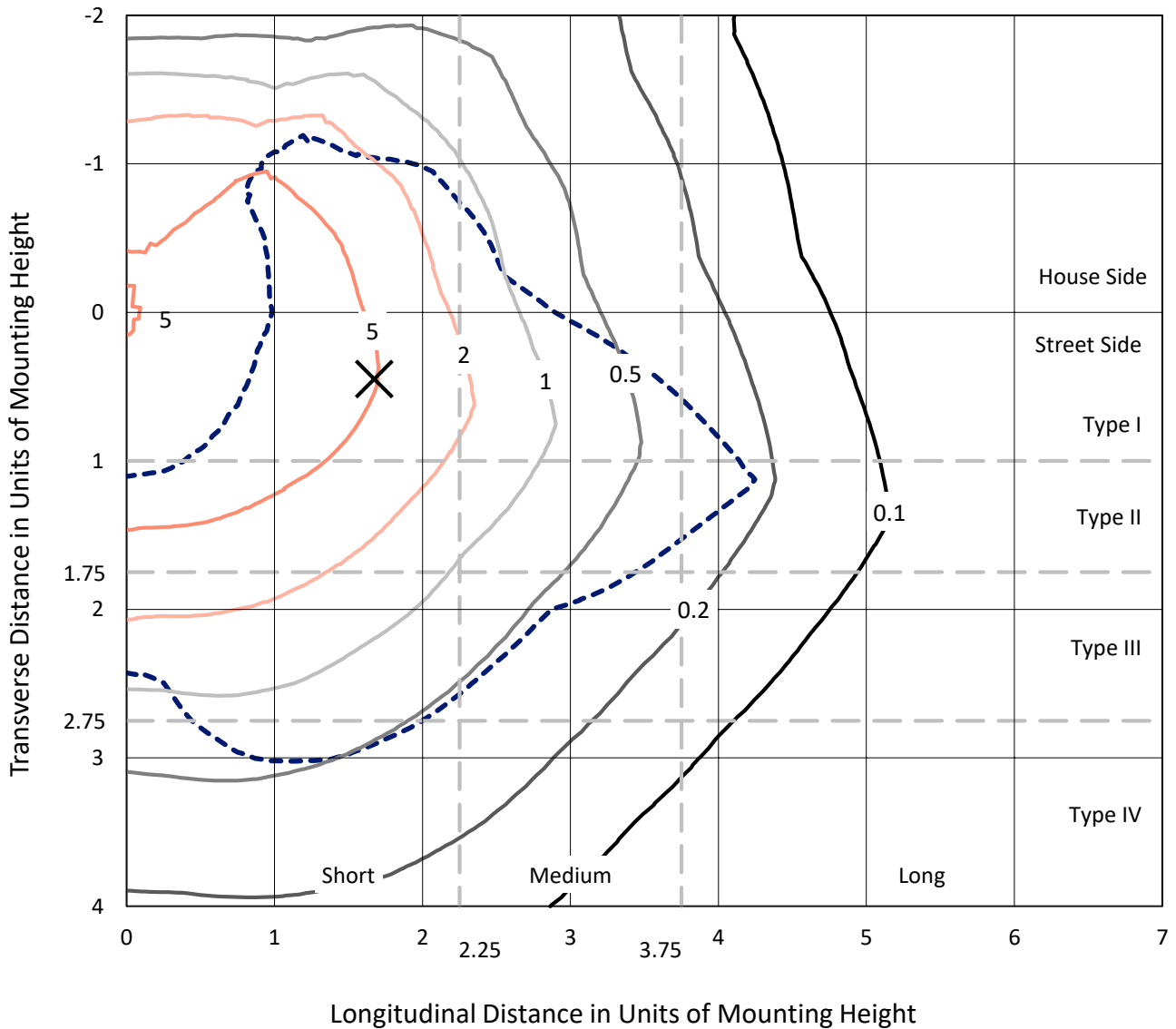


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Iso-Footcandle Lines of Horizontal Illumination

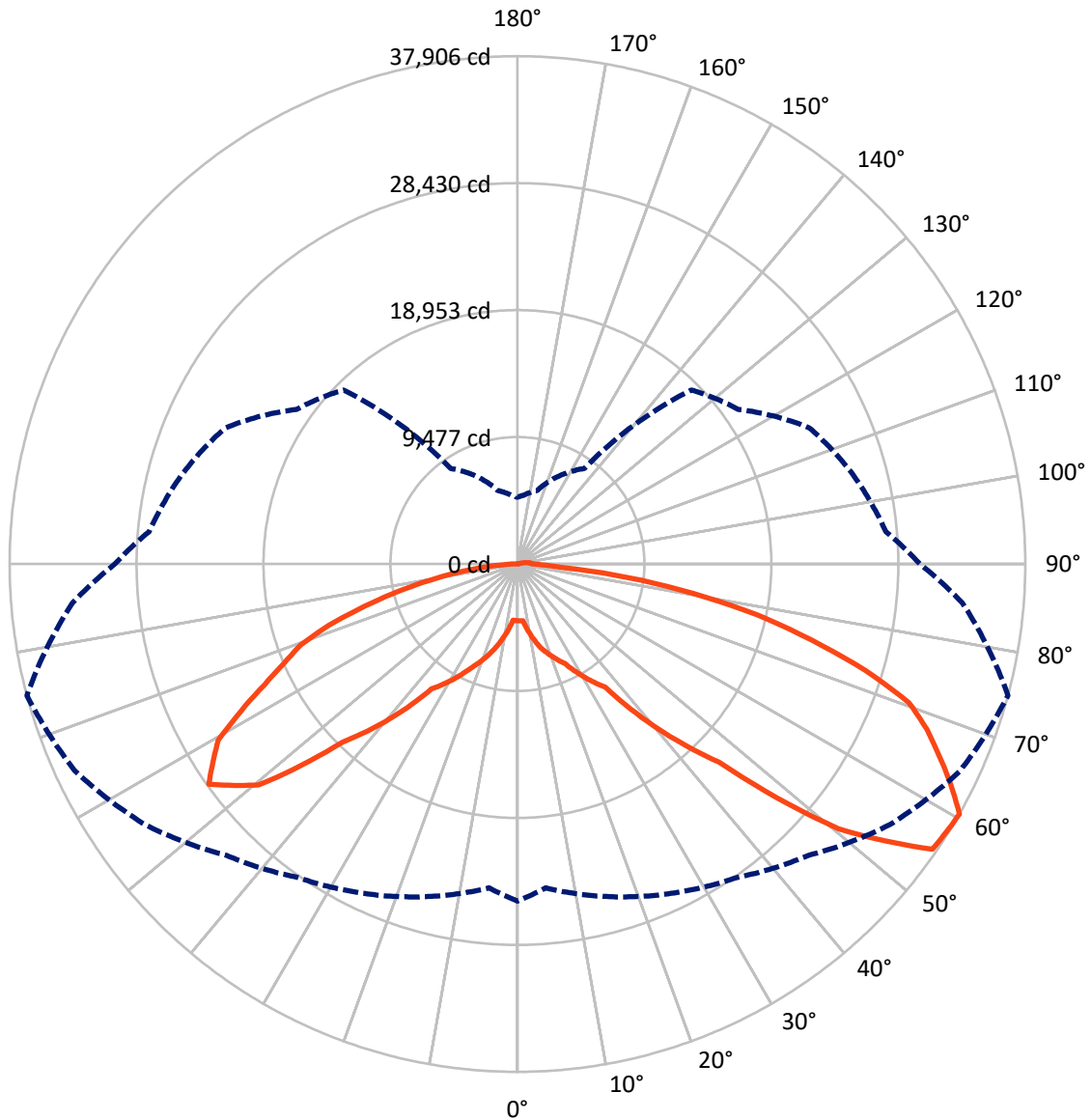
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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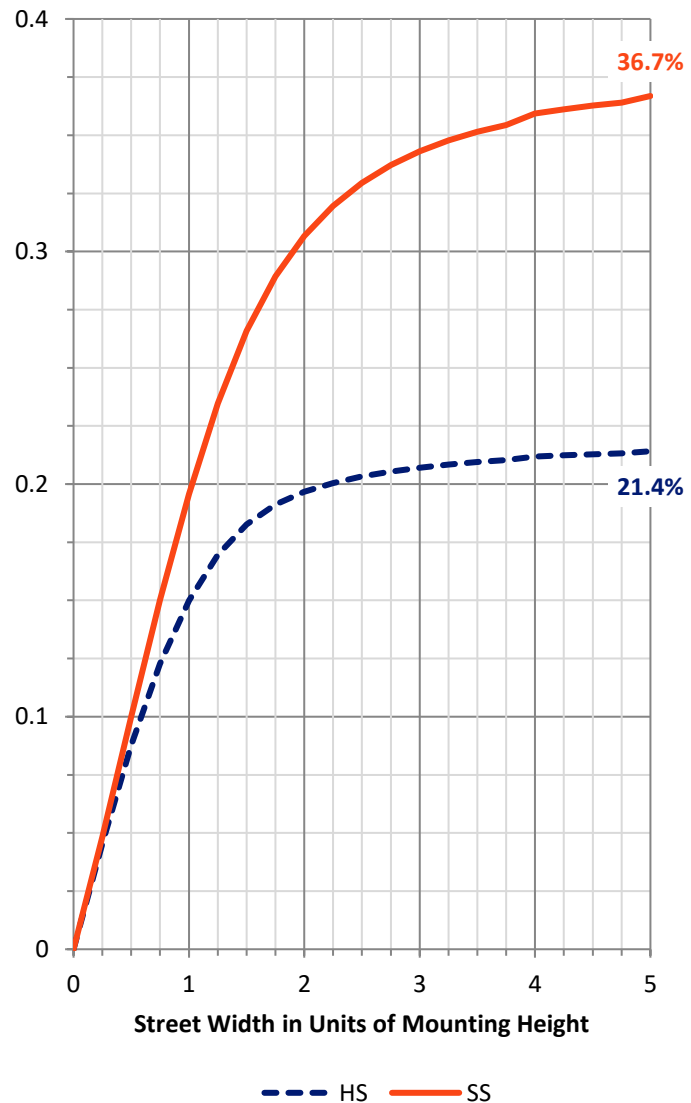
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30141.0	72.4	30213.4
	% Lamp	21.5	0.1	21.6
Street Side	Lumens	52081.6	392.6	52474.2
	% Lamp	37.2	0.3	37.5
Total	Lumens	82222.6	465.0	82687.6
	% Lamp	58.7	0.3	59.1

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	428.8	0.5	0.3
10°-20°	1718.4	2.1	1.2
20°-30°	3714.3	4.5	2.7
30°-40°	6919.2	8.4	4.9
40°-50°	13358.1	16.2	9.5
50°-60°	21181.6	25.6	15.1
60°-70°	19739.7	23.9	14.1
70°-80°	12592.4	15.2	9.0
80°-90°	3351.8	4.1	2.4
90°-100°	402.7	0.5	0.3
100°-110°	98.1	0.1	0.1
110°-120°	5.1	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	82222.6	99.4	58.7
0°-180°	82687.6	100.0	59.1



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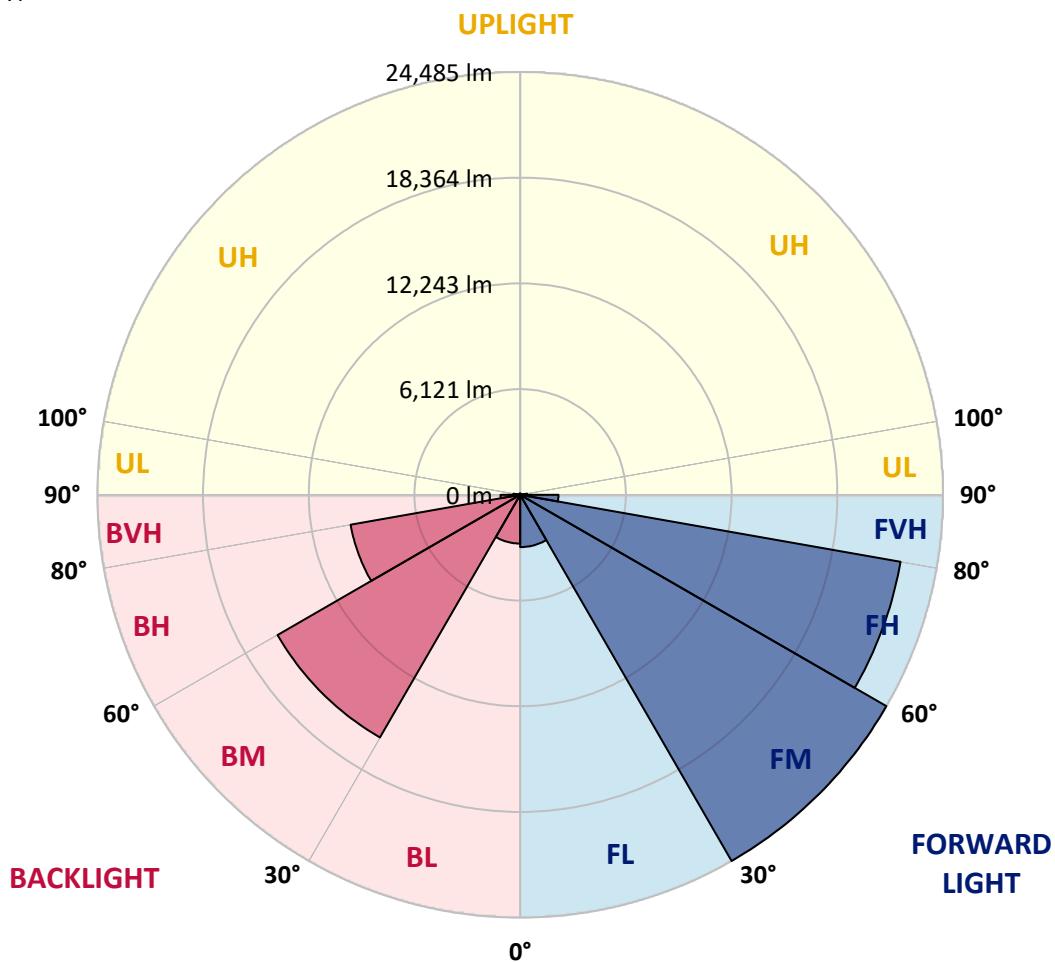
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3027.5	2.2			
FM (30°-60°)	24485.5	17.5			
FH (60°-80°)	22366.4	16.0			G5
FVH (80°-90°)	2216.4	1.6			G5
BL (0°-30°)	2822.1	2.0	B4/5000		
BM (30°-60°)	16225.8	11.6	B5		
BH (60°-80°)	9965.7	7.1	B5		G5
BVH (80°-90°)	1135.4	0.8			G5
UL (90°-100°)	402.7	0.3		U3/500	
UH (100°-180°)	72.4	0.1		U3/500	
Trapped Light	57312.4	40.9			

BUG Rating: B5-U3-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247
5°	3929	4035	4088	4141	4194	4194	4194	4247	4247	4247	4247
15°	6052	6052	5999	6052	6052	6052	5999	6265	6477	6530	6477
25°	8600	8600	8335	8229	8229	8282	8123	8176	8229	8229	8335
35°	10724	10618	10565	10883	10777	11043	11308	11308	11308	11308	11414
45°	15927	15927	15927	16988	17944	19006	19643	20599	21076	19377	19218
50°	21023	21501	21342	22669	23731	25589	27341	30314	31057	28243	26545
55°	25377	25111	25801	27341	28562	30579	34030	36685	37587	33871	30739
60°	25164	24262	25695	27128	28562	30739	33924	36472	37906	33340	30048
62.5°	23359	22244	24049	25642	27022	29199	32013	34561	36313	31163	27978
65°	21023	20545	22563	24262	25589	27341	29305	32490	34614	28615	25270
67.5°	18794	18953	21501	23572	24156	25536	26545	30261	32968	25695	22457
70°	17307	17785	20758	22510	22669	23784	23943	27872	31004	22722	19802
72.5°	15077	15821	18422	19802	20227	20864	21023	24368	27182	20227	17095
75°	12423	12794	15024	16351	16935	16617	17360	20280	22669	16988	14387
77.5°	9344	9450	11308	13060	13007	12317	13060	15290	18316	13166	11202
80°	6477	6371	7592	9344	9078	8282	8813	10618	13272	8760	7698
82.5°	4672	4672	5150	5946	6052	5521	5681	6955	8388	5150	4513
85°	3185	3132	3026	3504	3716	3398	3185	3557	3451	2814	2548
87.5°	2124	1964	1964	2230	2336	2177	1858	2017	1805	1646	1433
90°	1168	1062	1009	1062	1115	1009	849	1115	1115	903	690
95°	425	425	372	478	584	637	478	637	903	690	372
105°	106	53	0	0	0	0	0	53	106	159	53
115°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
166°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247
5°	4194	4194	4141	4035	4035	3929	3929	3875	3875	3929
15°	6371	6424	6424	6583	6530	5734	5415	5309	5468	5521
25°	8388	8600	8707	8654	8494	7910	6371	5787	5787	5840
35°	11573	11308	11467	11308	11149	8707	6265	5415	5362	5415
45°	19590	18634	17413	17095	16139	10512	7432	6955	6424	6158
50°	26120	25377	22297	21448	20174	13166	10140	8919	7910	7751
55°	29571	28296	25430	22669	21448	12370	10087	8707	7910	7751
60°	27606	25907	24049	20121	18369	8707	7220	5681	5150	4990
62.5°	25111	23359	22191	17891	16670	7539	6105	4353	3663	3504
65°	22350	20917	20068	16033	14599	6795	4937	3451	2761	2761
67.5°	19855	18900	17519	14971	12476	5574	3875	2708	2654	2654
70°	17626	17254	15183	15555	10936	4247	3026	2336	2124	2017
72.5°	14918	14812	12794	13644	9397	3185	1911	1540	1062	1062
75°	12317	11839	10777	12104	7963	2495	1486	796	531	531
77.5°	9344	9131	8866	13538	7008	1911	1062	372	319	319
80°	6424	6636	6742	15343	6052	1274	637	212	0	0
82.5°	3982	4406	4619	11043	4194	849	425	212	212	212
85°	2548	2601	2654	5574	2124	372	212	212	212	106
87.5°	1274	1062	1062	956	584	212	159	159	106	106
90°	584	478	372	212	106	212	106	106	106	106
95°	319	159	106	106	106	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
166°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)