

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: 767604

Luminaire Tested: **GSL-XX-1000-HPS-XX-AS-SG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 767604
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSL-XX-1000-HPS-XX-AS-SG-XX-HS
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-SQUARE DISTRIBUTION
Light Source: 1000 WATT HPS CLEAR E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 86368.8 lumens
Efficiency: 61.7%
Efficacy: 86.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B5 - U4 - 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

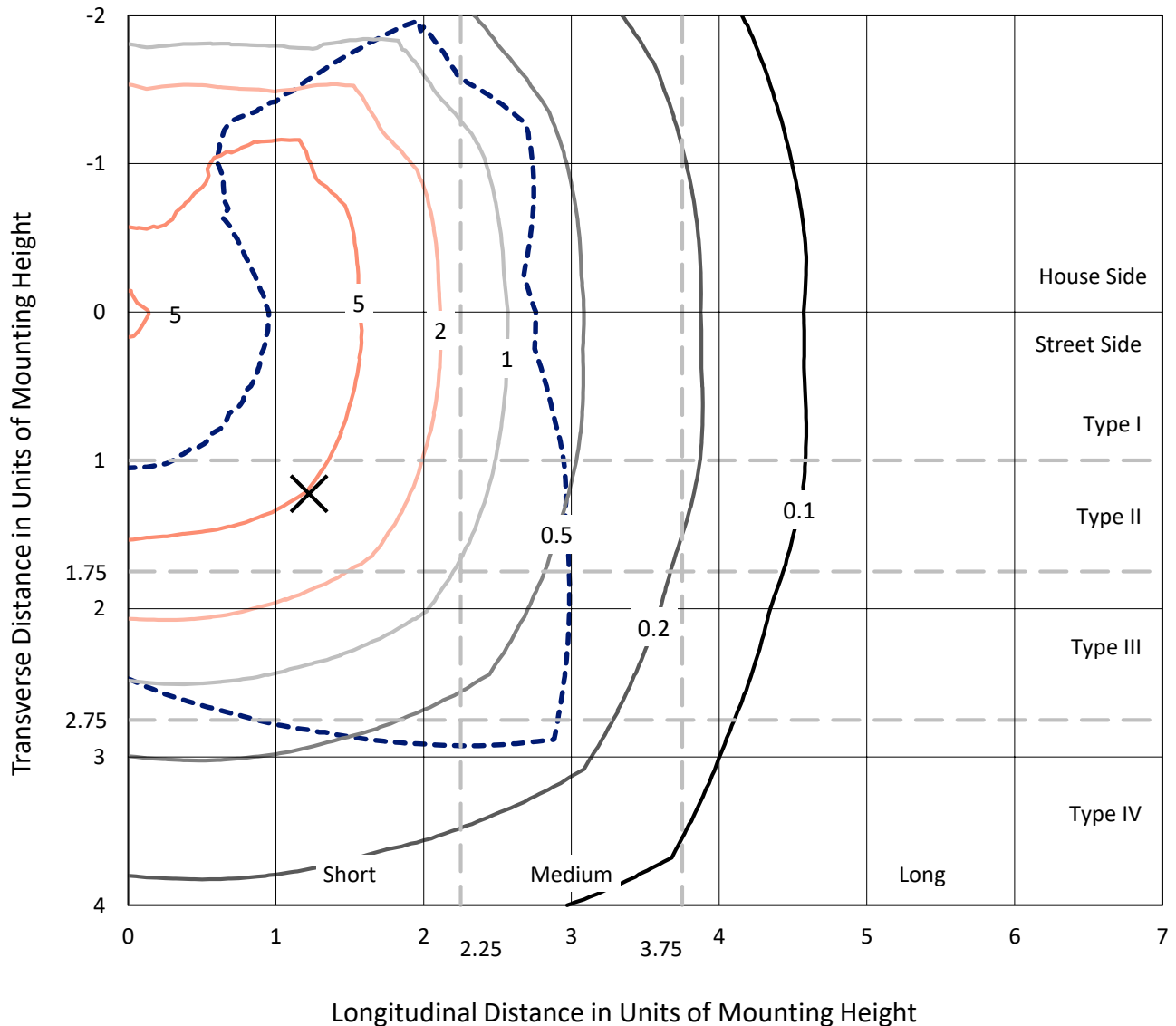


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Iso-Footcandle Lines of Horizontal Illumination

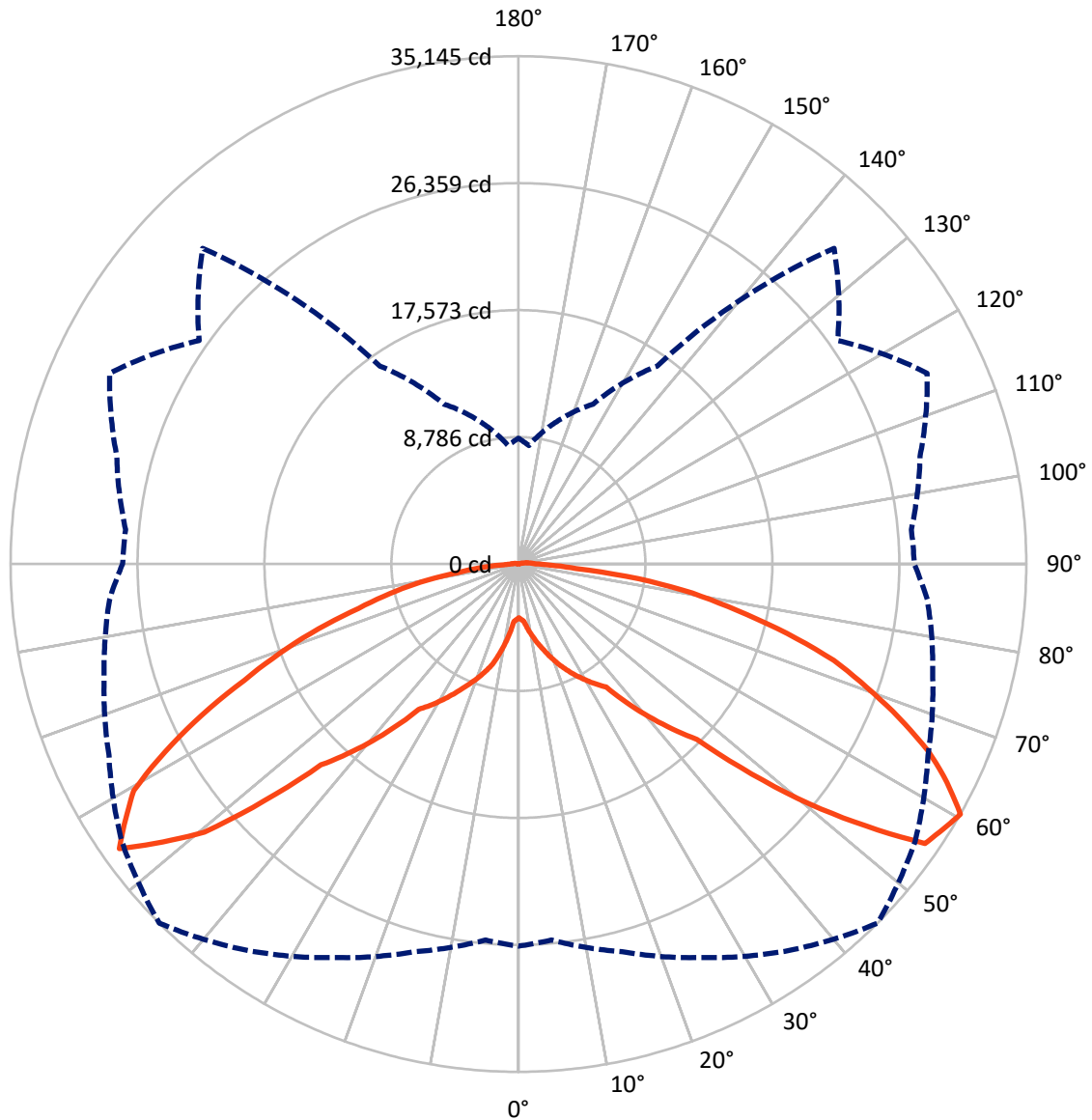
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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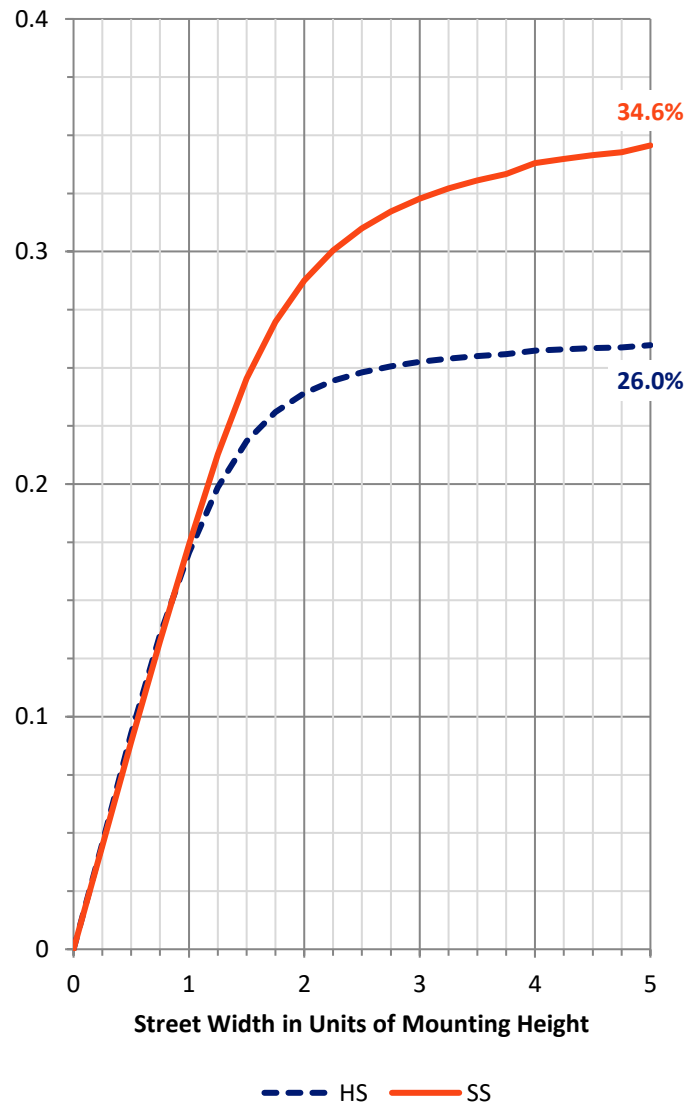
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36568.4	239.4	36807.8
	% Lamp	26.1	0.2	26.3
Street Side	Lumens	49133.0	428.0	49561.0
	% Lamp	35.1	0.3	35.4
Total	Lumens	85701.4	667.4	86368.8
	% Lamp	61.2	0.5	61.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	415.4	0.5	0.3
10°-20°	1772.3	2.1	1.3
20°-30°	3864.0	4.5	2.8
30°-40°	7069.7	8.2	5.0
40°-50°	14080.6	16.3	10.1
50°-60°	23545.6	27.3	16.8
60°-70°	20866.9	24.2	14.9
70°-80°	11921.7	13.8	8.5
80°-90°	3180.8	3.7	2.3
90°-100°	509.5	0.6	0.4
100°-110°	173.9	0.2	0.1
110°-120°	27.0	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°	85701.4	99.2	61.2
0°-180°	86368.8	100.0	61.7



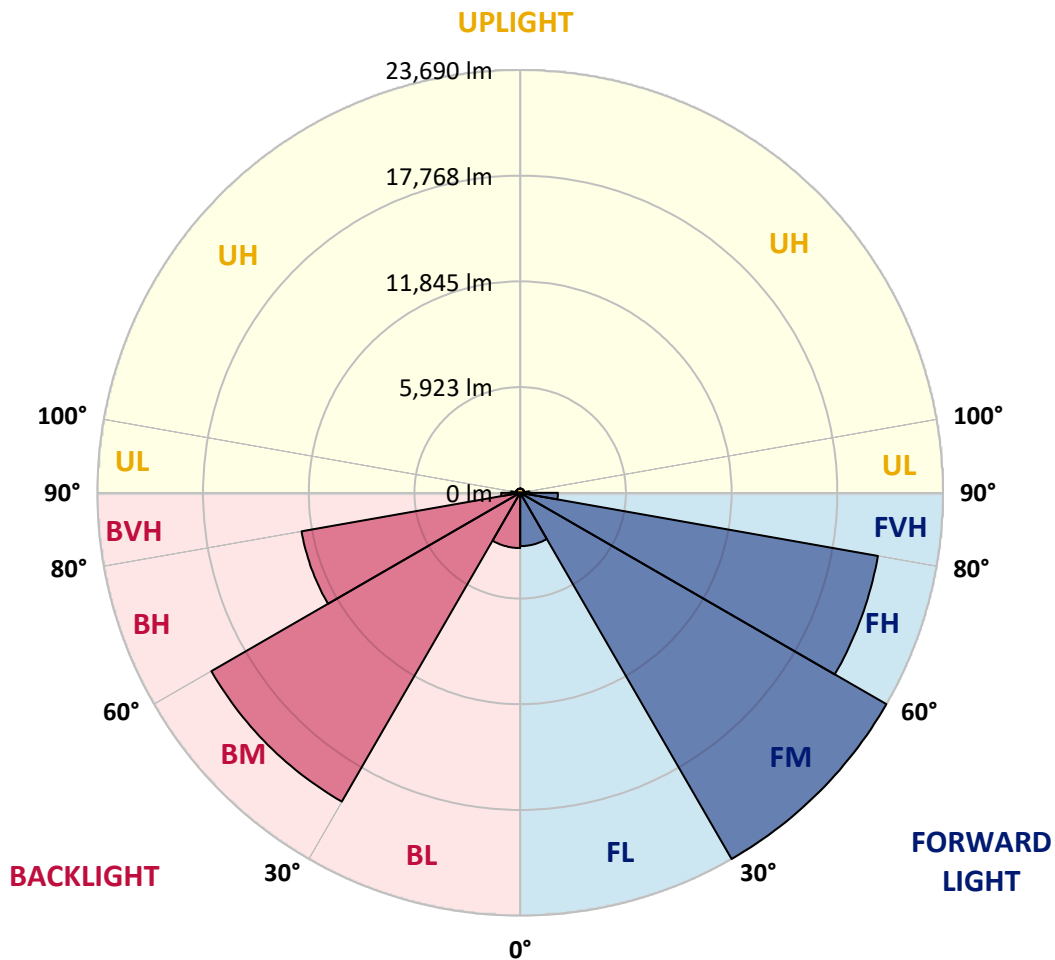
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2987.3	2.1			
FM (30°-60°)	23690.4	16.9			
FH (60°-80°)	20351.9	14.5			G5
FVH (80°-90°)	2113.4	1.5			G5
BL (0°-30°)	3095.0	2.2	B4/5000		
BM (30°-60°)	19976.6	14.3	B5		
BH (60°-80°)	12436.7	8.9	B5		G5
BVH (80°-90°)	1067.4	0.8			G5
UL (90°-100°)	509.5	0.4		U4/1000	
UH (100°-180°)	239.4	0.2		U3/500	
Trapped Light	53631.2	38.3			

BUG Rating: B5-U4-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3716	3716	3716	3716	3716	3716	3716	3716	3716	3716	3716
5°	3716	3769	3822	3875	3875	3982	3982	3929	4035	4035	3929
15°	5946	5893	5893	5946	5999	5999	5946	6158	6424	6530	6477
25°	8282	8229	8229	8123	8229	8282	8388	8335	8494	8654	8707
35°	9662	9715	9609	9821	9981	10459	10565	10671	10671	10830	11043
45°	15396	15396	15343	16192	16458	17307	17838	18103	18369	18316	18475
50°	22616	22510	22191	23518	24262	26120	26438	26438	25589	26279	25589
55°	28350	27872	28190	30101	32437	34136	33499	32331	31216	31163	30101
60°	26438	26120	27766	30048	32650	35145	33499	31269	29677	28403	27394
62.5°	23678	23943	25801	28084	30526	33287	31694	28934	27235	25748	25217
65°	20705	21395	23253	25377	28243	31163	29252	26545	24421	22881	22510
67.5°	17838	18687	20333	22297	25377	28403	26651	23890	21607	20227	20068
70°	15396	16139	17732	19696	22669	25589	23731	21183	18953	17466	17466
72.5°	13378	13856	15396	17095	19749	22828	20439	17997	16458	14865	14812
75°	11149	11573	12688	13962	16458	19218	16882	14599	13803	12317	12104
77.5°	8707	9078	9981	10830	12848	15449	13219	11361	10830	9556	9397
80°	6371	6955	7592	7963	9715	12210	9609	8282	7751	6689	6477
82.5°	4247	4619	5043	5468	6689	8388	6530	5521	4778	4035	3822
85°	2761	2761	3079	3292	3716	3982	3663	3398	2761	2389	2283
87.5°	1593	1752	1964	2124	2336	2230	2177	2017	1486	1221	1168
90°	849	849	1009	1062	1221	1168	1115	1009	743	478	478
95°	425	425	584	637	637	743	743	690	478	319	319
105°	106	106	212	106	106	106	53	106	106	106	106
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°	3716	3716	3716	3716	3716	3716	3716	3716	3716	3716
5°	3982	3982	4035	3982	3982	3875	3929	3929	3929	3929
15°	6530	6636	6848	7061	7167	6318	5999	5893	6105	6265
25°	8866	9131	9450	9556	9503	9078	7698	7167	7114	7220
35°	11202	11520	12210	12317	12210	10246	7539	6636	6371	6477
45°	19006	20174	20652	19961	19484	13591	10724	8547	7273	6902
50°	25642	27659	28509	26438	28562	19537	15343	11998	9981	10405
55°	29889	31429	33605	29464	33924	21448	15927	13697	11626	12317
60°	27288	28774	31216	26969	30898	16723	12210	10193	8229	8707
62.5°	25217	26385	28456	24739	27712	14122	10299	7963	6211	6583
65°	22297	23678	25323	22138	24262	11998	8441	5627	4247	4247
67.5°	19749	20652	21873	19271	20599	10352	6371	3769	2548	2442
70°	16882	17997	19059	17360	17626	9768	5203	2601	1646	1593
72.5°	14759	15502	16139	14865	14546	8547	3345	1593	1062	1062
75°	12210	12529	12954	11998	11467	6742	1752	743	637	637
77.5°	9715	9662	9768	9237	9131	5946	1115	637	478	425
80°	6795	6955	7008	6689	6902	4459	690	531	425	319
82.5°	4035	4300	4566	4459	4194	2708	531	425	265	212
85°	2336	2867	2973	2973	2495	637	478	319	212	212
87.5°	1168	1380	1380	1274	1009	478	531	265	159	212
90°	531	690	637	637	531	425	425	212	106	106
95°	319	478	478	425	372	212	159	106	106	106
105°	106	106	106	106	106	106	106	106	106	106
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)