

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: 765888

Luminaire Tested: **GSL-XX-1000-HPS-XX-RW-SG-XX-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 765888  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSL-XX-1000-HPS-XX-RW-SG-XX-X  
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-RECTANGULAR DISTRIBUTION  
Light Source: 1000 WATT HPS CLEAR E-25  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 140000 (1 lamp)  
Luminaire Lumens: 103877.4 lumens  
Efficiency: 74.2%  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Semi-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

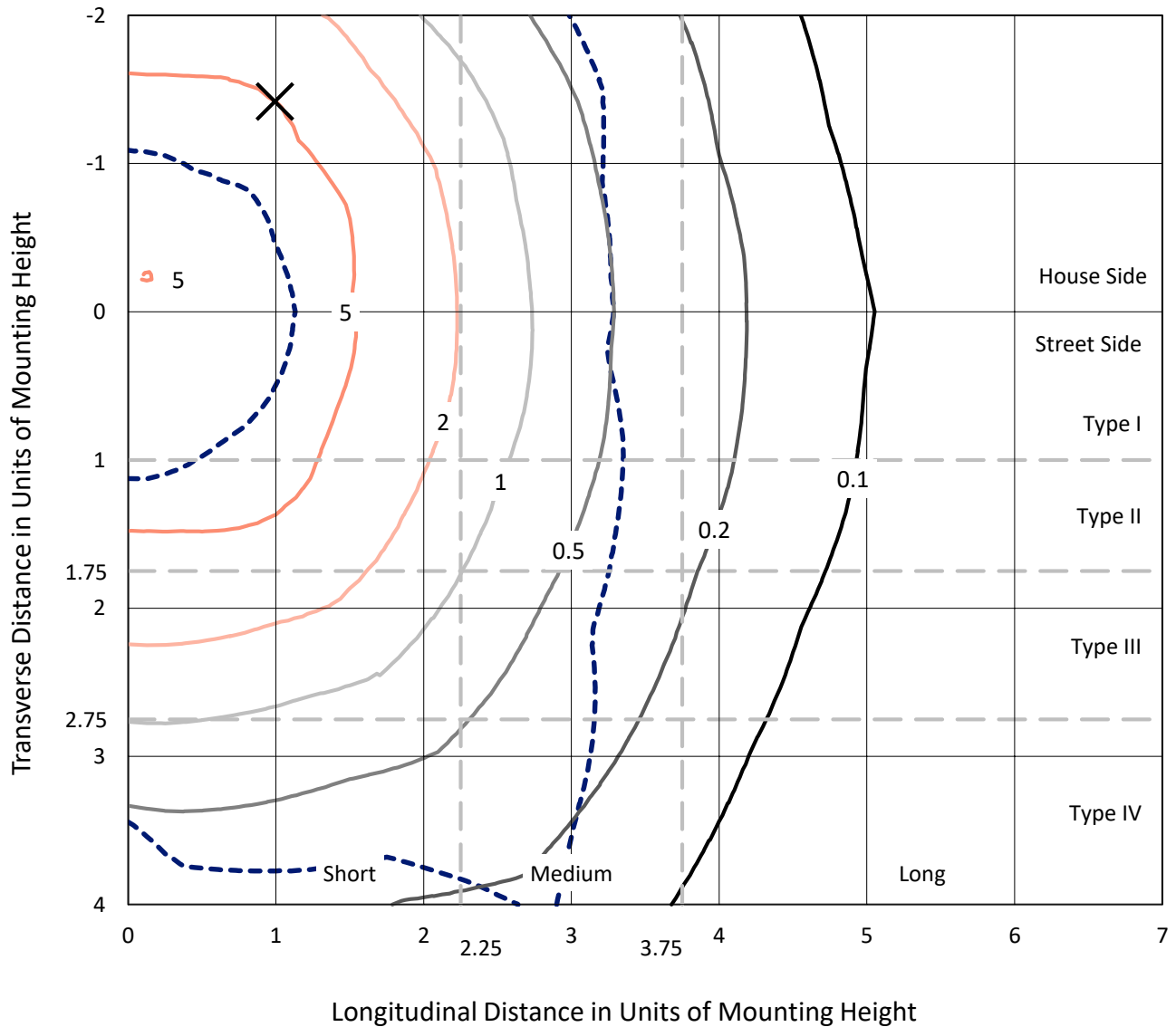


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

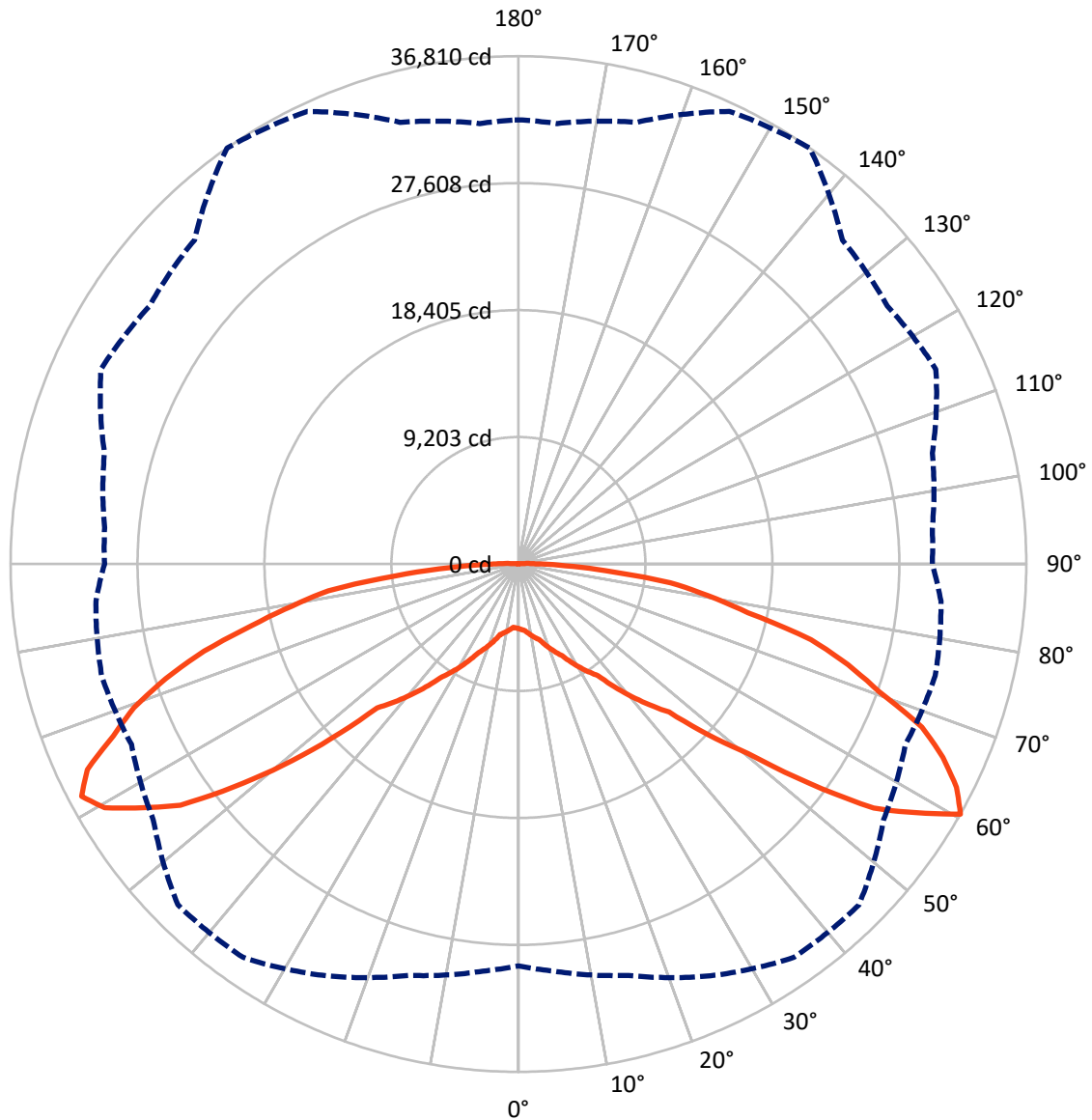


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 145-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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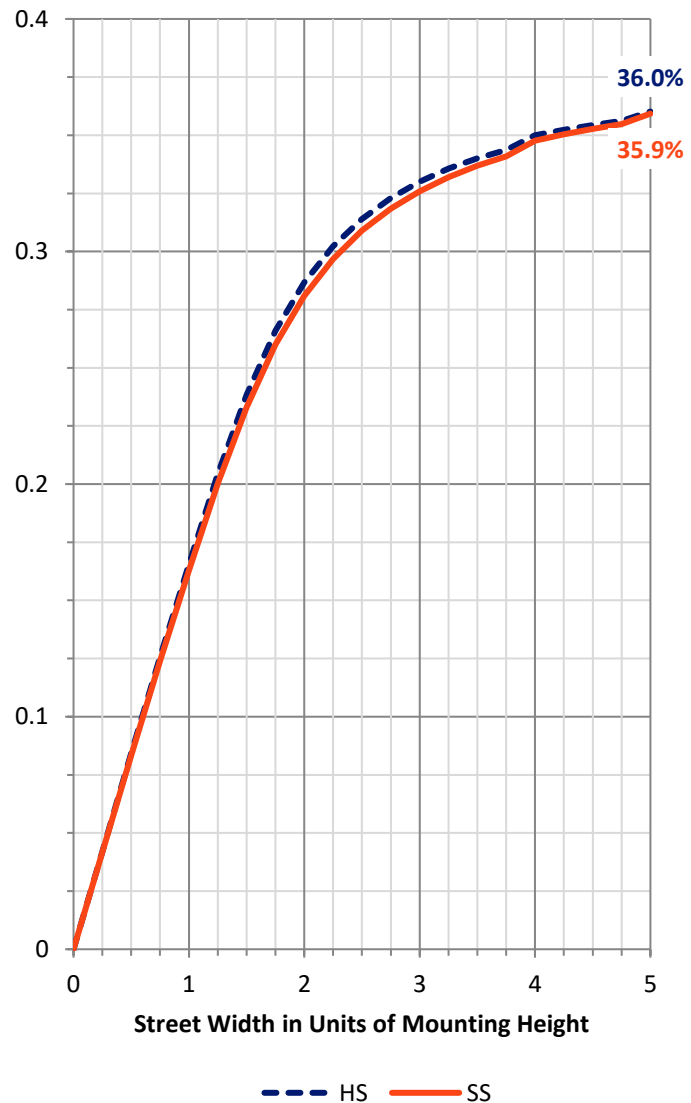
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	51362.9	320.9	51683.8
	% Lamp	36.7	0.2	36.9
<b>Street Side</b>	Lumens	51832.1	361.6	52193.7
	% Lamp	37.0	0.3	37.3
<b>Total</b>	Lumens	103195.0	682.4	103877.4
	% Lamp	73.7	0.5	74.2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	462.6	0.4	0.3
10°-20°	1628.9	1.6	1.2
20°-30°	3477.8	3.3	2.5
30°-40°	6541.6	6.3	4.7
40°-50°	12839.2	12.4	9.2
50°-60°	24495.0	23.6	17.5
60°-70°	29105.8	28.0	20.8
70°-80°	19210.1	18.5	13.7
80°-90°	6425.9	6.2	4.6
90°-100°	568.7	0.5	0.4
100°-110°	114.0	0.1	0.1
110°-120°	24.3	0.0	0.0
120°-130°	3.6	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°	103195.0	99.3	73.7
0°-180°	103877.4	100.0	74.2

**Coefficient of Utilization**



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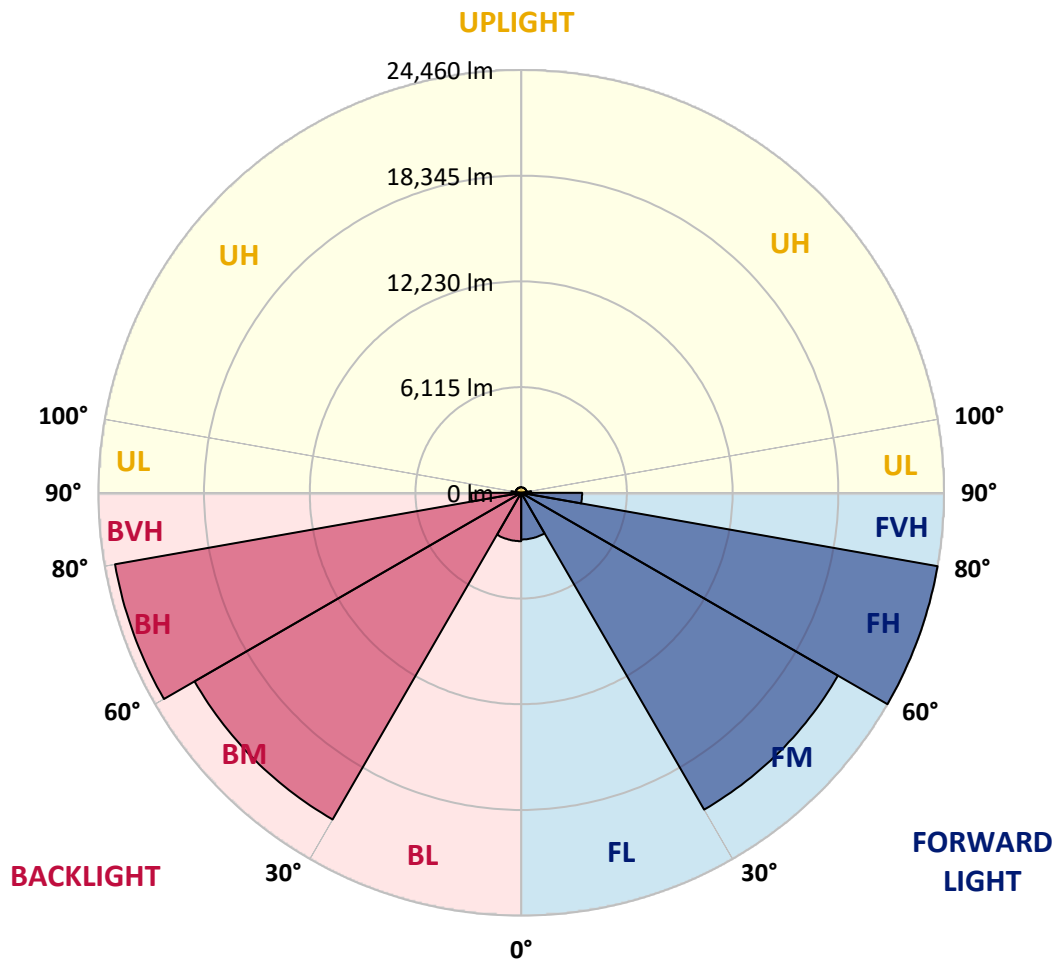
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2702.2	1.9			
FM	(30°-60°)	21160.3	15.1			
FH	(60°-80°)	24459.8	17.5			G5
FVH	(80°-90°)	3523.7	2.5			G5
BL	(0°-30°)	2797.5	2.0	B4/5000		
BM	(30°-60°)	21819.7	15.6	B5		
BH	(60°-80°)	23856.1	17.0	B5		G5
BVH	(80°-90°)	2902.2	2.1			G5
UL	(90°-100°)	568.7	0.4		U4/1000	
UH	(100°-180°)	320.9	0.2		U3/500	
Trapped Light		36122.6	25.8			

**BUG Rating: B5-U4-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680
5°	4650	4617	4617	4634	4601	4601	4650	4634	4730	4698	4714
15°	5392	5392	5263	5231	5279	5328	5473	5570	5618	5586	5570
25°	6942	6958	7007	7152	7104	7201	7152	7217	7249	7330	7523
35°	9364	9509	9800	9994	10010	9929	9800	9929	9864	9784	9897
45°	13884	13675	14014	14498	14611	14563	14595	14595	14450	14191	14433
50°	20342	19955	20504	21537	22490	21182	20536	20455	20310	20536	19890
55°	24831	24831	25525	27381	30094	28560	27155	26332	26122	26381	24427
60°	29125	29626	30869	32935	34808	34921	32306	30949	31272	30740	29997
62.5°	28770	29335	30336	32580	35857	34195	31531	30078	30223	29835	28948
65°	27220	27882	28980	31062	34614	32661	29722	28463	27947	27059	26913
67.5°	25735	26187	26800	28124	31902	30239	27817	25928	25799	24814	24395
70°	23055	23636	24314	25993	29739	28011	25121	22990	22909	22409	22070
72.5°	19987	20843	22118	22974	26865	24282	22070	20552	19761	18631	18938
75°	16629	18340	19067	20342	23636	21586	18647	17808	17097	16112	15854
77.5°	14337	14966	15838	15660	19810	17759	15644	13416	13578	13416	13416
80°	10978	11479	12205	12383	16645	13852	11204	10769	10930	10365	11237
82.5°	7911	8331	9461	8815	13917	11108	8573	8411	8072	7427	7669
85°	4811	5764	5489	5812	8976	7427	5618	5069	5118	4843	4779
87.5°	2745	2777	3487	3746	4956	4730	3487	3229	3374	3003	2745
90°	1292	1598	1727	2018	2002	1566	1501	1744	1469	1324	1001
95°	129	129	194	258	226	242	307	355	323	242	210
105°	0	0	48	113	48	32	65	81	48	16	16
115°	0	16	16	16	16	16	16	16	16	16	16
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
165°	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°	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680
5°	4650	4537	4730	4795	4795	4843	4843	4876	4860	4876
15°	5505	5586	5489	5376	5425	5699	4440	6038	6135	5974
25°	7507	7523	7523	6797	6797	7362	8024	8072	8121	8298
35°	10042	10203	10074	8960	8767	9945	10688	10559	10381	10430
45°	14579	15289	14772	13319	11753	15305	15773	15644	15547	15176
50°	20294	20698	21456	20052	19584	21602	23168	21602	21311	21473
55°	25783	27398	28286	28463	28108	31240	30497	28641	27769	27866
60°	30110	31062	33387	32629	33210	36810	36197	33145	32047	32193
62.5°	28964	29513	31902	31515	31837	35648	34873	31789	30288	30514
65°	26752	27624	29416	29254	30110	33807	32935	29981	28334	28415
67.5°	24637	24911	27091	27123	28011	31547	30029	27107	25961	25832
70°	21715	21860	23943	24701	24282	27721	26623	24492	22732	21795
72.5°	18744	19261	20439	20730	21634	24976	23684	20875	19277	19019
75°	16355	15822	17307	17582	18679	21908	19567	16968	16403	16177
77.5°	13093	12270	13352	14353	14030	17017	15015	13901	12690	13206
80°	10074	9751	9961	10623	11285	13949	11576	10365	9251	9170
82.5°	7636	7572	7523	7281	8686	11091	7943	7330	6684	6716
85°	4440	4068	4601	4924	4617	6345	4860	4892	3810	4262
87.5°	2341	2551	3051	2680	2406	3374	2987	2551	2260	1970
90°	1227	1356	1243	856	953	1227	920	807	775	840
95°	210	291	420	355	274	291	468	291	226	226
105°	16	48	113	97	65	81	226	81	16	0
115°	0	16	16	16	32	16	32	16	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
165°	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)