

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: 765671

Luminaire Tested: **GSL-XX-1000-HPS-XX-3F-SG-XX-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 765671  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSL-XX-1000-HPS-XX-3F-SG-XX-X  
Description: LARGE ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE III DISTRIBUTION  
Light Source: 1000 WATT HPS CLEAR E-25  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 140000 (1 lamp)  
Luminaire Lumens: 101934.5 lumens  
Efficiency: 72.8%  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 2.25' x L: 2.25' x H: 1.2')  
IES Classification: Type IV - Medium - 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

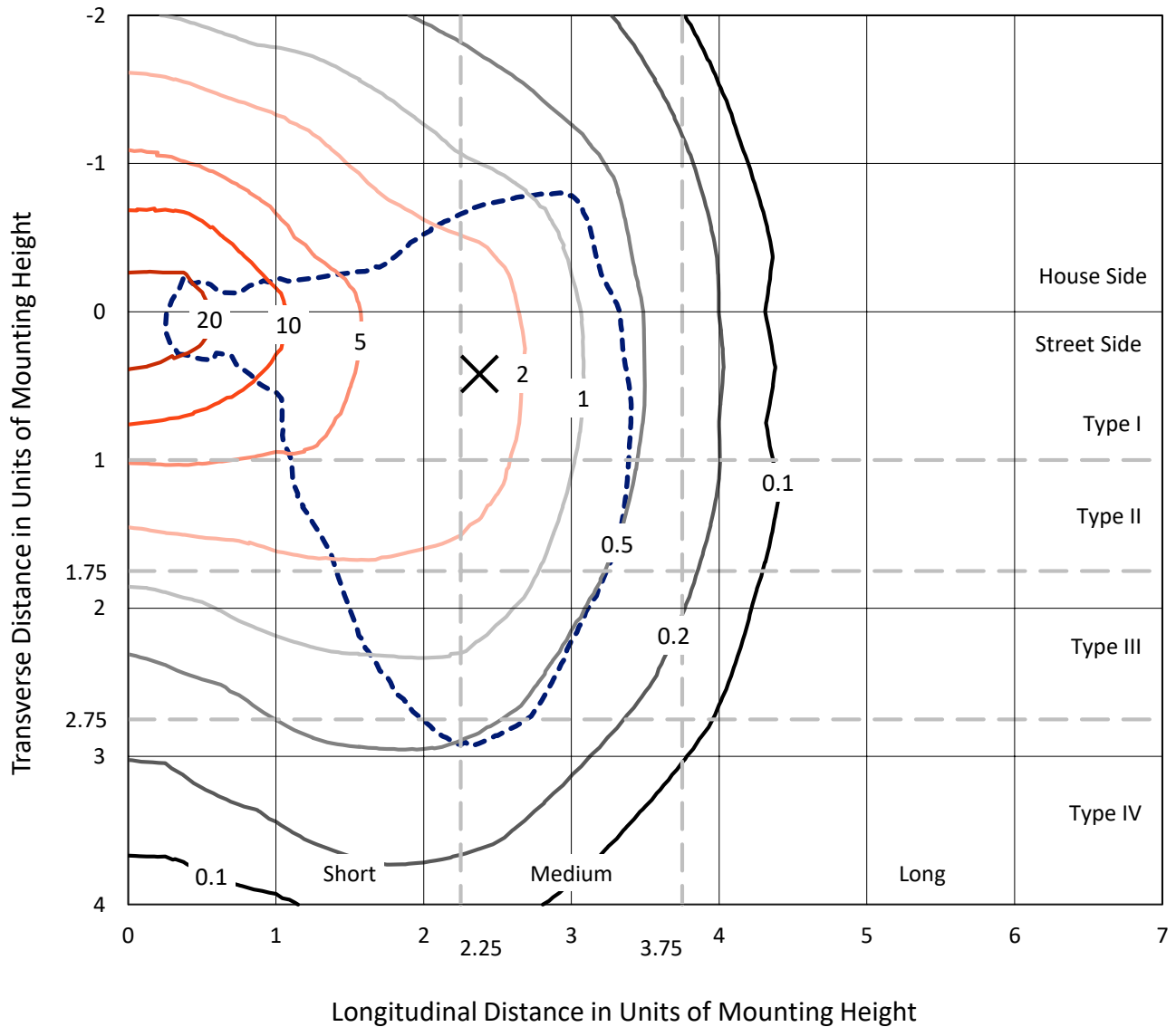


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### Iso-Footcandle Lines of Horizontal Illumination

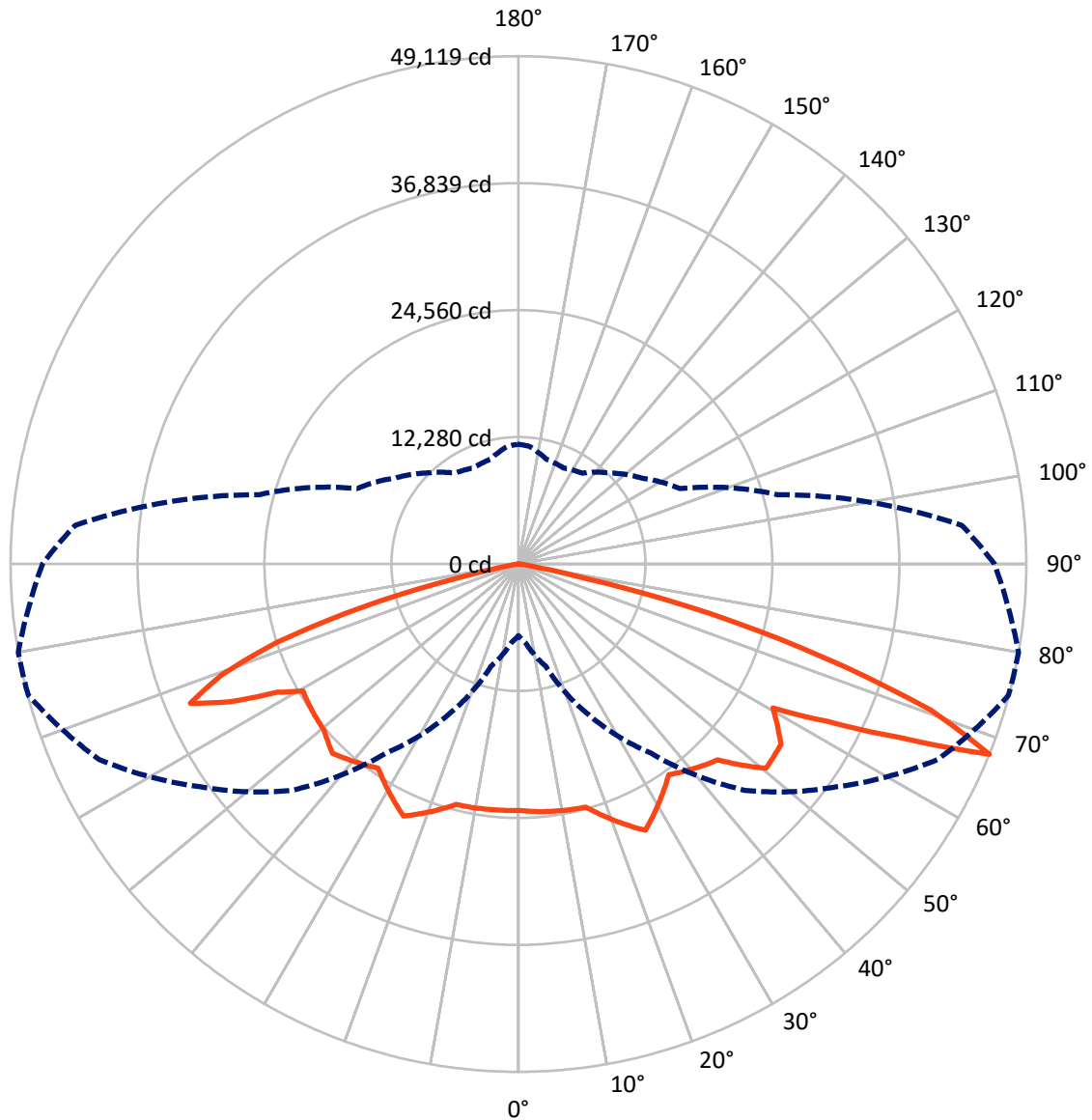
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 26.5 fc  
 Type IV - Medium - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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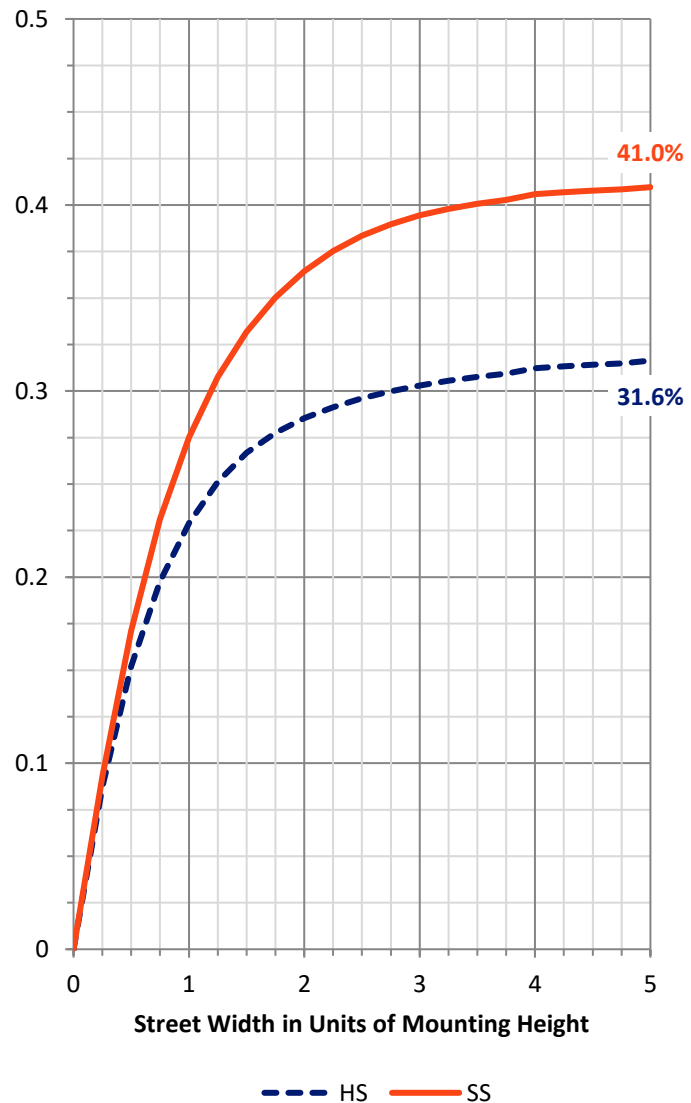
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	44554.8	23.0	44577.8
	% Lamp	31.8	0.0	31.8
<b>Street Side</b>	Lumens	57288.7	68.0	57356.8
	% Lamp	40.9	0.0	41.0
<b>Total</b>	Lumens	101843.5	91.0	101934.5
	% Lamp	72.7	0.1	72.8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	2259.0	2.2	1.6
10°-20°	6579.6	6.5	4.7
20°-30°	10450.9	10.3	7.5
30°-40°	13306.9	13.1	9.5
40°-50°	15231.2	14.9	10.9
50°-60°	17188.3	16.9	12.3
60°-70°	21084.5	20.7	15.1
70°-80°	14922.6	14.6	10.7
80°-90°	845.0	0.8	0.6
90°-100°	38.8	0.0	0.0
100°-110°	24.5	0.0	0.0
110°-120°	20.8	0.0	0.0
120°-130°	7.4	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°	101843.5	99.9	72.7
0°-180°	101934.5	100.0	72.8

**Coefficient of Utilization**



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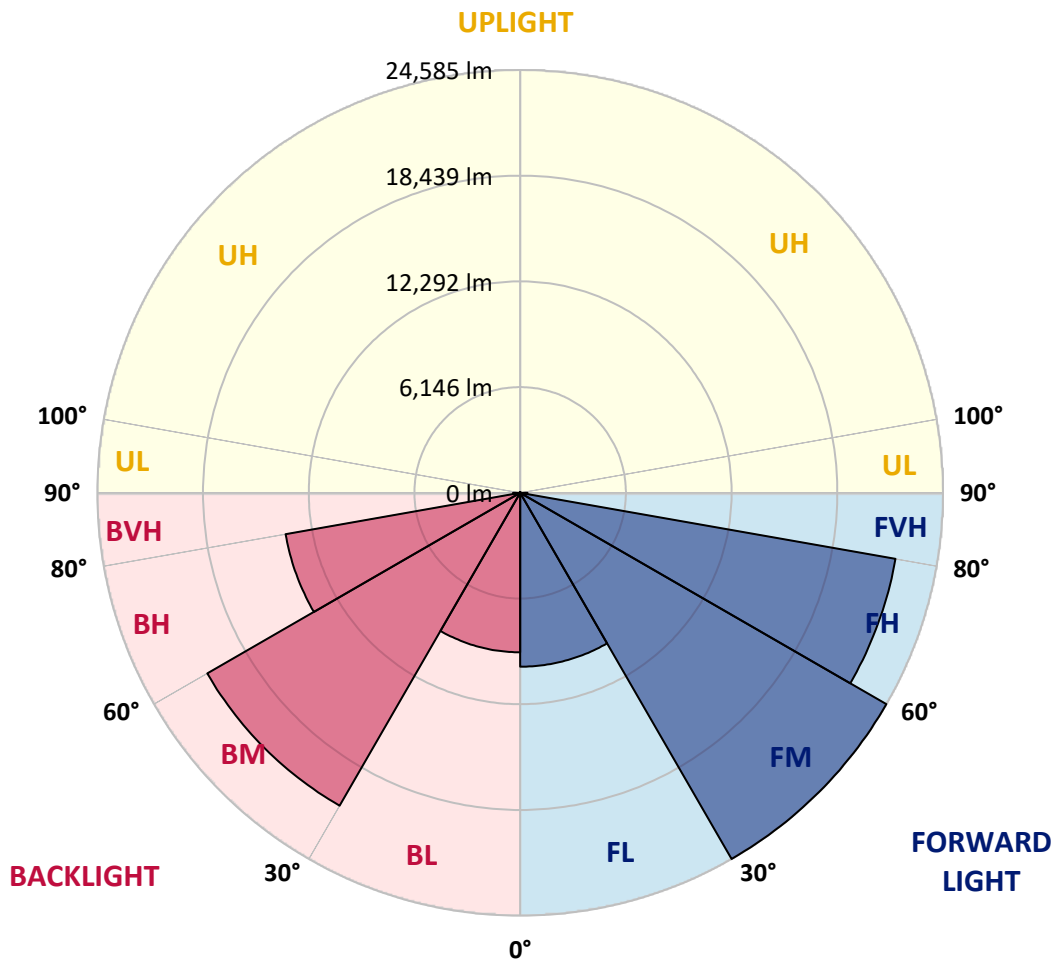
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10106.5	7.2			
FM (30°-60°)	24584.8	17.6			
FH (60°-80°)	22156.3	15.8			G5
FVH (80°-90°)	427.2	0.3			G3/500
BL (0°-30°)	9273.2	6.6	B5		
BM (30°-60°)	21004.9	15.0	B5		
BH (60°-80°)	13850.7	9.9	B5		G5
BVH (80°-90°)	417.8	0.3			G3/500
UL (90°-100°)	38.8	0.0		U2/50	
UH (100°-180°)	23.0	0.0		U2/50	
Trapped Light	38065.5	27.2			

**BUG Rating: B5-U3-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	23842	23842	23842	23842	23842	23842	23842	23842	23842	23842	23842
5°	24002	23956	23987	24063	24124	24140	24155	24094	24185	24063	24048
15°	23117	23101	23483	23666	23819	23834	24109	24231	24369	24399	24384
25°	21773	21727	21590	21468	22307	22857	24964	28155	28751	28537	28491
35°	19025	18918	18567	19635	20552	21559	22659	24170	24934	25040	25163
45°	13314	13375	14734	16307	18078	20261	23132	25102	26522	27025	27636
50°	11085	11329	12887	15085	17635	20704	21865	25911	30446	31056	30552
55°	9894	10383	11955	14200	17773	21483	28659	31896	31530	30797	30369
60°	8886	9085	10841	13589	17834	27285	28690	27896	28323	28293	28995
62.5°	8153	8428	10490	14093	19803	27239	29926	30675	31881	33484	33056
65°	7543	7863	10383	15513	20887	27957	33163	36064	40095	40416	41546
67.5°	6932	7604	10245	16093	22323	30949	37576	44737	49073	49119	47531
70°	6291	6657	9726	16979	24017	33835	43439	48539	45271	42309	42095
72.5°	5588	5756	9619	17192	23956	35912	41302	36034	32522	30812	28293
75°	4886	4978	7924	15574	23269	27086	23788	22979	19895	19101	17910
77.5°	3206	3390	5237	11986	14841	13009	14032	11131	9680	6291	6886
80°	1741	1909	3329	4794	5161	6443	3512	2229	1756	1283	1252
82.5°	550	718	718	1283	1038	1237	687	626	534	489	489
85°	336	336	397	672	443	366	305	260	214	244	183
87.5°	275	321	397	626	260	198	168	153	137	107	107
90°	92	92	122	183	92	92	76	46	46	31	15
95°	61	61	61	76	61	46	31	15	0	0	0
105°	31	61	76	61	31	31	15	0	0	0	0
115°	61	76	107	61	76	61	61	15	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
165°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23842	23842	23842	23842	23842	23842	23842	23842	23842	23842	23842
5°	24079	23926	23819	23697	23514	23437	23361	23330	23468	23758	23727
15°	24247	24170	23865	23346	22475	21666	21040	20918	20338	19651	19758
25°	28064	27148	26430	25056	24323	22292	19971	18276	16948	16307	16276
35°	25025	24659	23239	22231	20796	20506	20032	18414	16689	16124	15940
45°	27835	27697	23620	20246	18002	16047	15101	14444	14368	15406	15879
50°	29545	28537	20918	17712	17040	15681	14963	14566	14185	13268	13100
55°	29591	28277	20689	17574	16047	15589	14536	13452	13559	14001	14352
60°	28461	27041	21330	17315	15345	14169	12322	10505	10703	11039	11085
62.5°	32812	30033	22781	17147	14902	13803	11711	9894	9955	10260	10047
65°	39118	37515	24353	17254	14612	12963	11528	9818	9802	10352	10199
67.5°	46035	43027	25926	17238	14505	12459	10719	10260	10490	11451	11574
70°	38278	35728	25560	17177	14062	11665	9864	10734	11528	12505	13467
72.5°	27560	24750	24384	16948	13574	10734	8718	10123	11574	13421	13742
75°	17299	16353	15299	13329	11574	9543	7375	8734	11283	13085	13009
77.5°	4993	6779	5375	5466	5680	6581	5726	5878	8535	10490	10474
80°	1191	931	763	1008	1527	1466	2351	3130	5619	8108	8276
82.5°	489	443	458	428	458	611	748	1221	2657	3390	3878
85°	168	198	168	168	183	290	366	458	534	611	550
87.5°	92	61	61	76	76	122	153	229	305	305	305
90°	15	0	0	15	15	31	61	122	153	168	183
95°	0	0	0	0	0	15	15	15	15	15	0
105°	0	0	0	0	15	15	15	15	0	0	0
115°	0	0	15	31	31	15	15	15	15	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
165°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)