

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: 767605

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 767605  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSL-XX-1000-HPS-XX-AR-SG-XX-HS  
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-ROUND DISTRIBUTION  
Light Source: 1000 WATT HPS CLEAR E-25  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 140000 (1 lamp)  
Luminaire Lumens: 86312.3 lumens  
Efficiency: 61.7%  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type IV - Short - 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

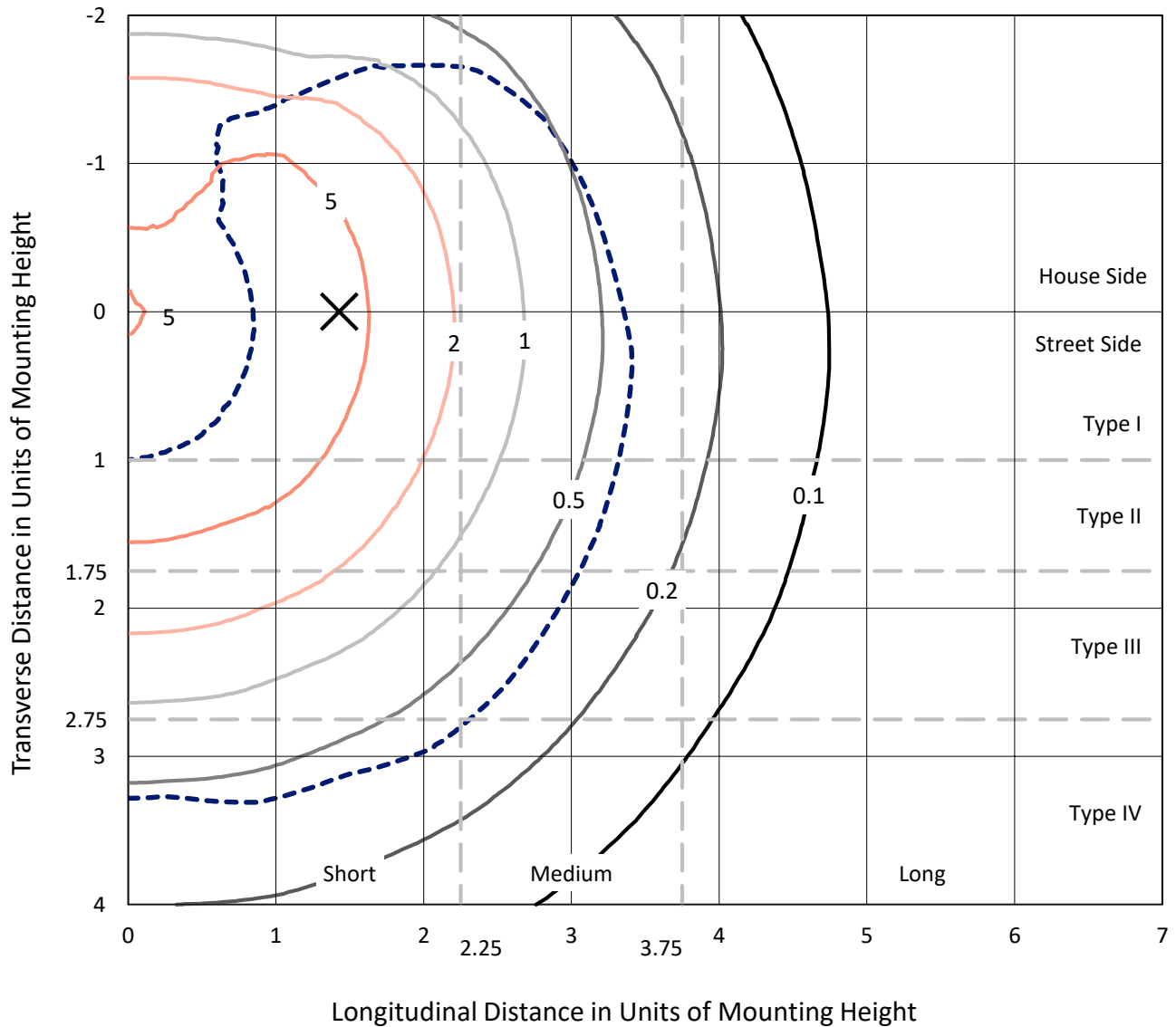


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

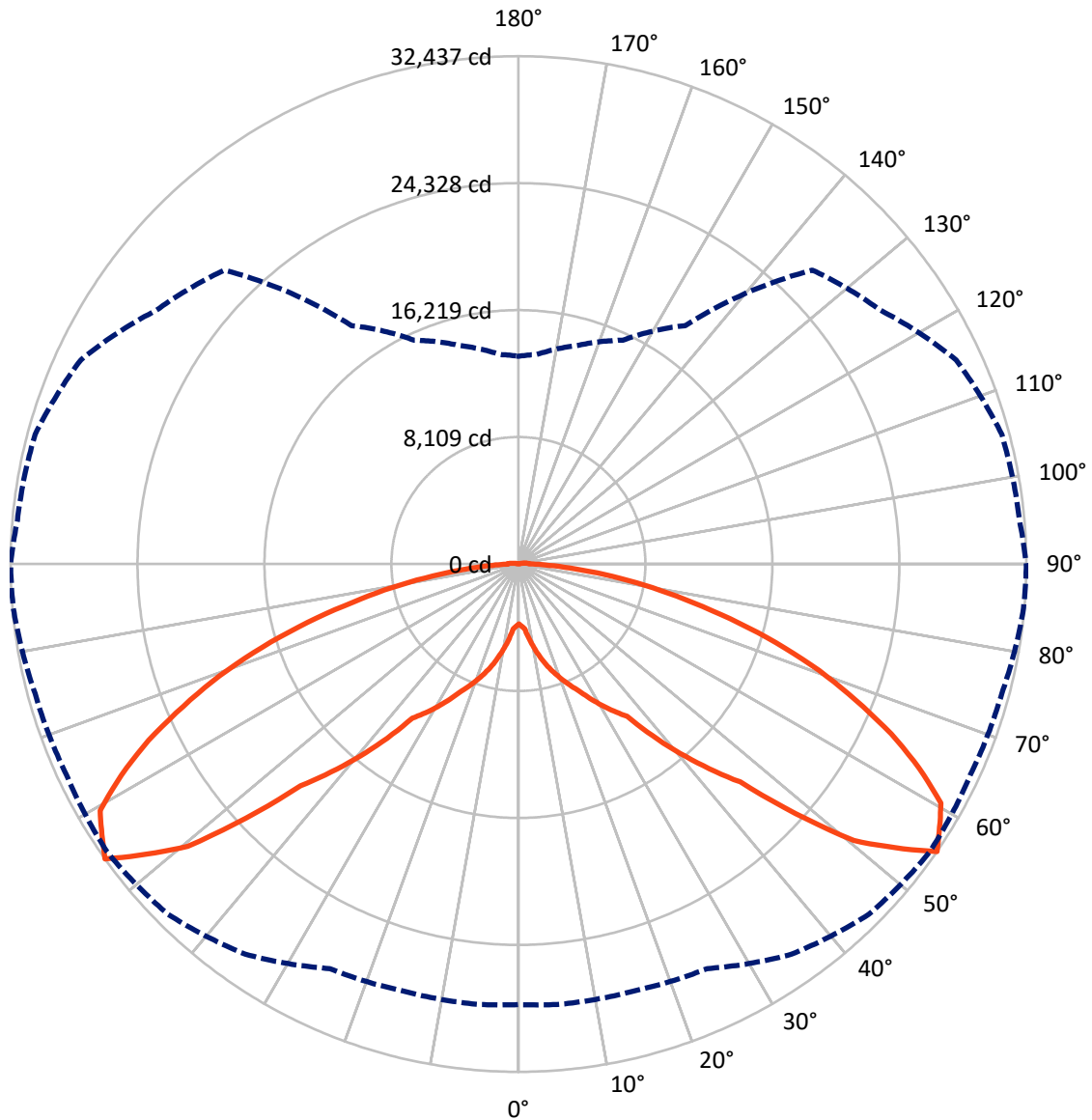


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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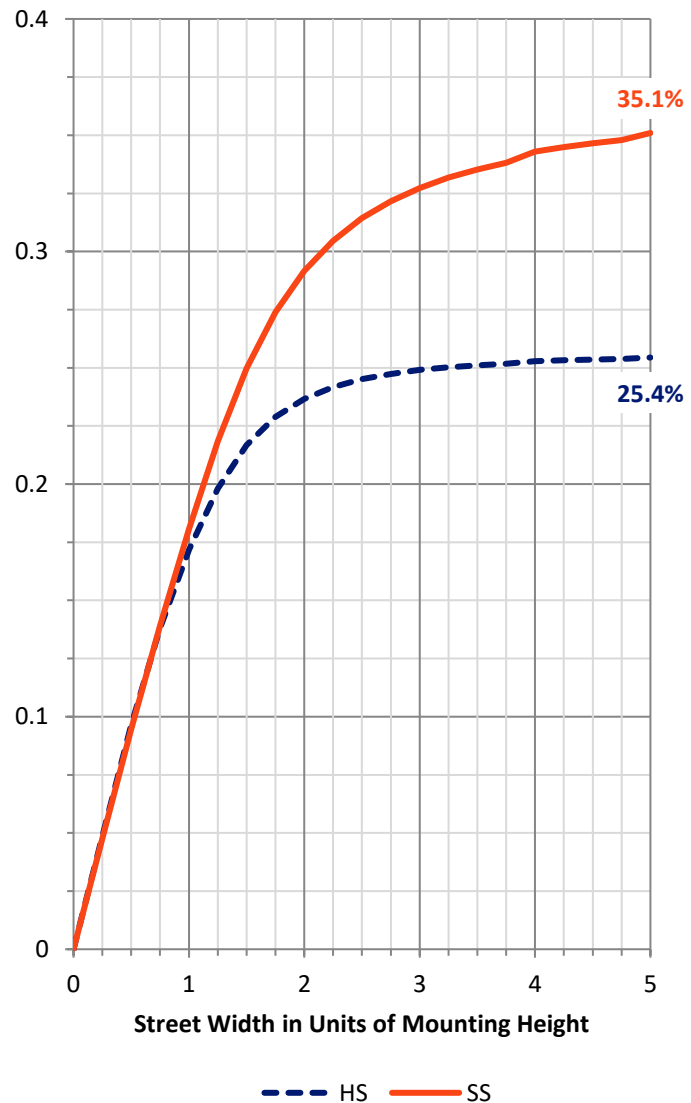
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35751.2	141.0	35892.2
	% Lamp	25.5	0.1	25.6
<b>Street Side</b>	Lumens	50031.1	389.0	50420.1
	% Lamp	35.7	0.3	36.0
<b>Total</b>	Lumens	85782.3	530.0	86312.3
	% Lamp	61.3	0.4	61.7

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	425.9	0.5	0.3
10°-20°	1797.1	2.1	1.3
20°-30°	3934.1	4.6	2.8
30°-40°	7254.0	8.4	5.2
40°-50°	14126.7	16.4	10.1
50°-60°	23083.7	26.7	16.5
60°-70°	21049.6	24.4	15.0
70°-80°	11723.5	13.6	8.4
80°-90°	3295.5	3.8	2.4
90°-100°	448.2	0.5	0.3
100°-110°	119.7	0.1	0.1
110°-120°	8.4	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°	85782.3	99.4	61.3
0°-180°	86312.3	100.0	61.7



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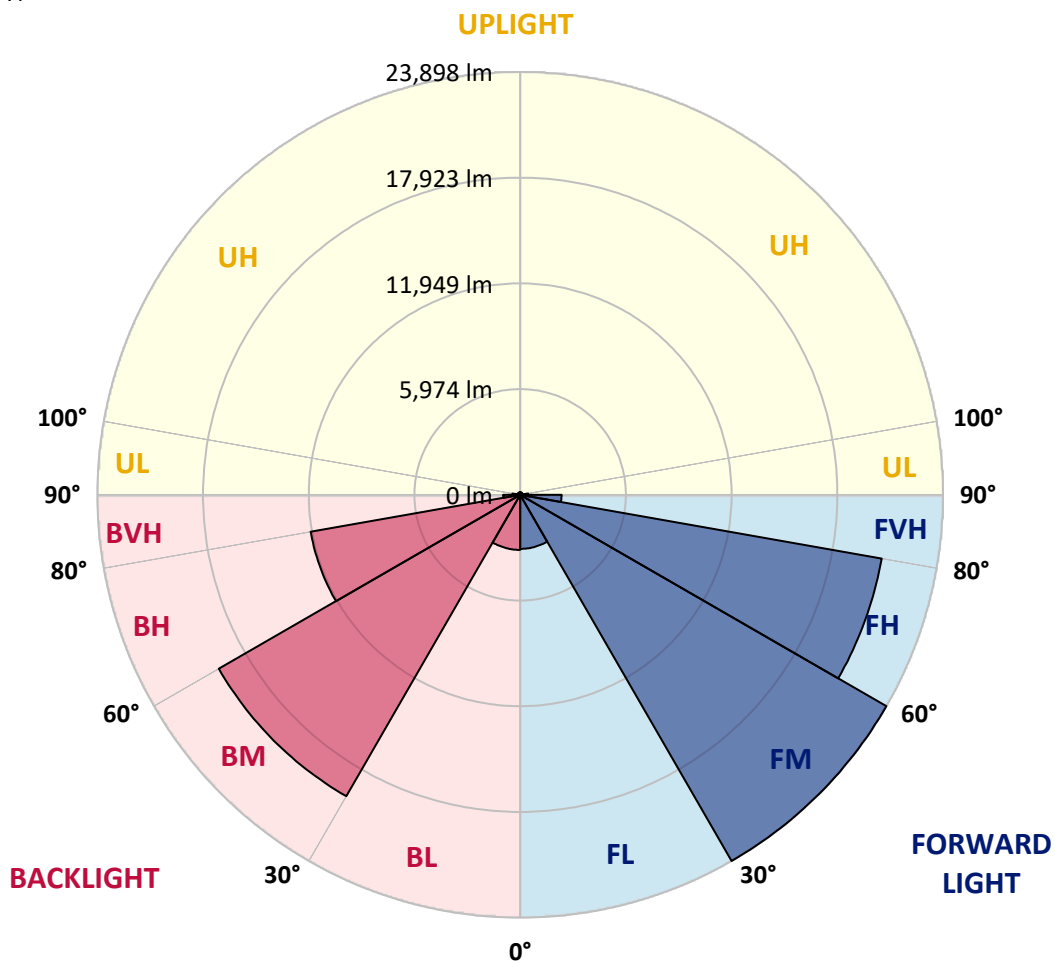
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3055.5	2.2			
FM (30°-60°)	23897.9	17.1			
FH (60°-80°)	20750.1	14.8			G5
FVH (80°-90°)	2340.1	1.7			G5
BL (0°-30°)	3113.4	2.2	B4/5000		
BM (30°-60°)	19667.6	14.0	B5		
BH (60°-80°)	12023.1	8.6	B5		G5
BVH (80°-90°)	955.5	0.7			G5
UL (90°-100°)	448.2	0.3		U3/500	
UH (100°-180°)	141.0	0.1		U3/500	
Trapped Light	53687.7	38.3			

**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°	3822	3822	3822	3822	3822	3822	3822	3822	3822	3822	3822
5°	3929	3875	3929	3982	3982	4088	4088	4088	4141	4194	4141
15°	6052	6052	5999	5999	6052	6158	6052	6371	6583	6689	6689
25°	8388	8282	8229	8229	8282	8441	8441	8600	8707	8866	8972
35°	10299	10299	10140	10299	10459	10883	11043	11308	11520	11733	11945
45°	16033	16086	16033	16351	16617	17466	18103	18581	19165	19484	19855
50°	22191	22722	22297	22775	23572	25377	26120	26491	26491	27394	27766
55°	28137	28243	28243	28509	30420	31641	32066	31853	31960	32384	32437
60°	28562	28721	29093	29252	31376	32225	31800	31482	31429	31216	31004
62.5°	26969	26969	27553	27819	29677	30314	29836	29517	29464	29093	28721
65°	24739	24793	25536	25748	27288	27872	27447	27075	26916	26545	26173
67.5°	21979	22032	22775	22988	24421	24739	24315	24209	23996	23731	23253
70°	19431	19377	20280	20386	21607	21713	21395	21236	21183	20970	20386
72.5°	16670	16617	17413	17626	18475	18528	18316	18103	17838	17626	17201
75°	13803	13909	14599	14653	15343	15290	14971	14812	14546	14387	13962
77.5°	11043	10989	11626	11626	11998	11945	11573	11573	11096	11043	10830
80°	8282	8441	8972	8972	9184	9078	8760	8707	8494	8388	8176
82.5°	6158	6158	6477	6583	6583	6583	6211	6105	5893	5734	5521
85°	4035	4088	4035	4088	4088	3982	3663	3557	3504	3451	3292
87.5°	2442	2389	2442	2548	2442	2442	2177	2124	1858	1752	1646
90°	1168	1115	1168	1168	1009	1062	903	903	796	849	743
95°	531	531	584	584	531	584	478	584	478	584	531
105°	106	106	106	106	0	0	0	53	53	106	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°	3822	3822	3822	3822	3822	3822	3822	3822	3822	3822
5°	4141	4088	4088	4035	4088	4088	4088	3929	4088	4035
15°	6742	6742	6902	7008	7114	6424	6052	5840	6158	6052
25°	9131	9344	9556	9609	9609	8866	7592	6902	7008	6902
35°	11998	12157	12370	12210	12157	9768	7645	6795	6902	6795
45°	20174	20280	19961	19590	18794	13219	10352	9556	8600	8282
50°	27394	27925	26545	25589	24474	17679	14812	13007	11998	11786
55°	32119	31960	30845	28243	26545	18581	15767	14440	13432	13272
60°	30420	29995	28668	25961	23147	15183	12529	11043	10193	10087
62.5°	28243	27766	26438	23943	20599	12954	10565	8866	8335	8176
65°	25536	25164	23890	21554	18050	10724	8335	6848	6424	6265
67.5°	22881	22350	21076	19165	15396	8388	6211	5043	4672	4459
70°	20068	19537	18581	16829	13166	6848	4725	3663	3292	3079
72.5°	16829	16245	15555	14069	10459	4937	3026	1911	1593	1380
75°	13538	13113	12582	11361	8176	3557	1805	849	690	425
77.5°	10459	10087	9768	8919	6211	2389	956	265	319	106
80°	7698	7486	7114	6477	4406	1380	478	53	212	0
82.5°	5203	4937	4725	4300	2761	743	319	53	212	0
85°	3079	3026	2973	2708	1752	372	212	0	106	0
87.5°	1433	1433	1327	1115	743	265	106	0	53	0
90°	584	690	584	372	372	212	106	0	0	0
95°	372	478	425	265	212	106	106	0	0	0
105°	106	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)