

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: LUMARK

Report Number: E429-128

Luminaire Tested: **HPQP-S4/9-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-128
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: HPQP-S4/9-150
Description: RECESSED COMMERCIAL W/SPECULAR LOUVERS
Light Source: 150 WATT HPS COATED ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 15000 (1 lamp)
Luminaire Lumens: 9427.8 lumens
Efficiency: 62.9%
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G0

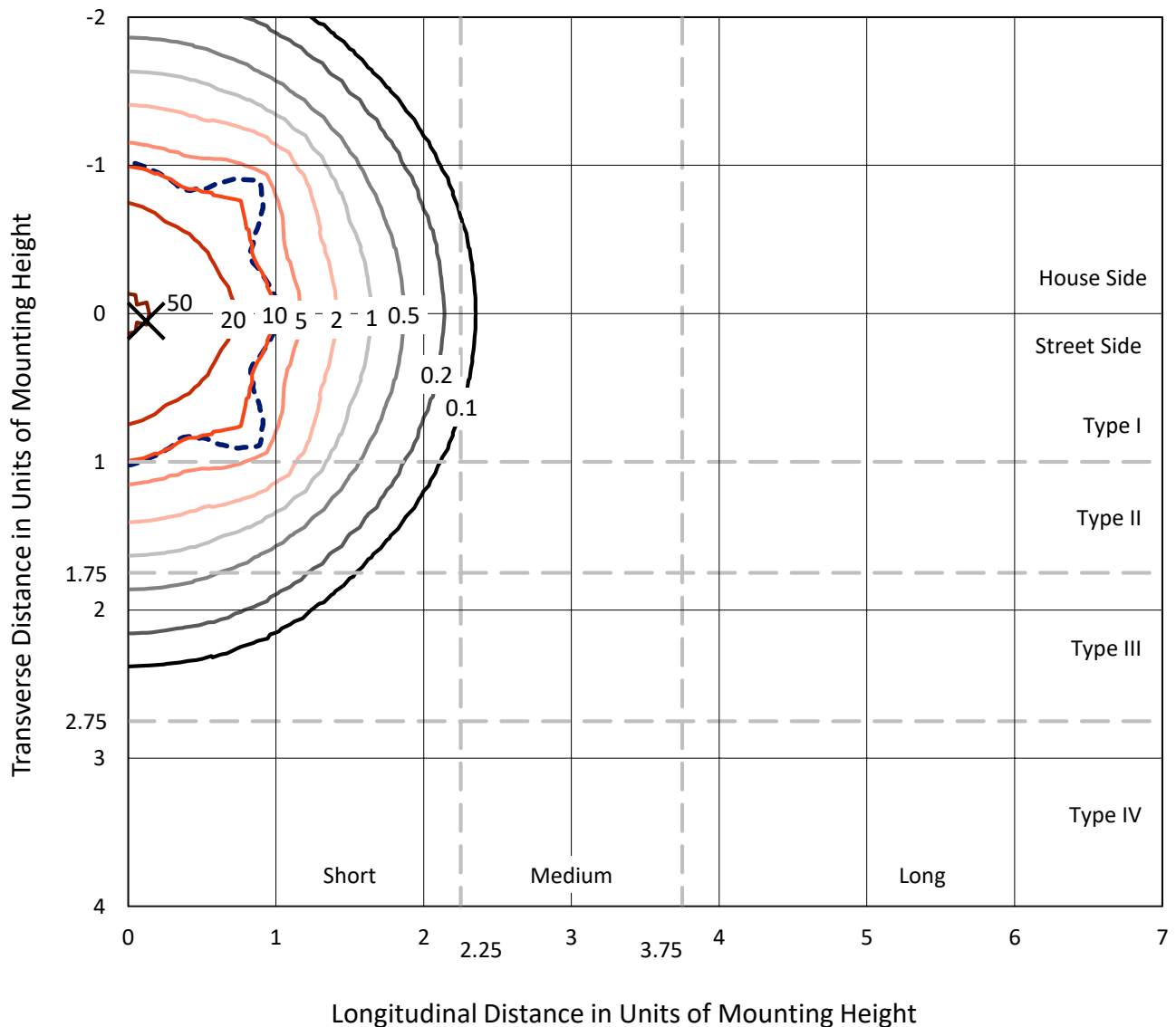
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

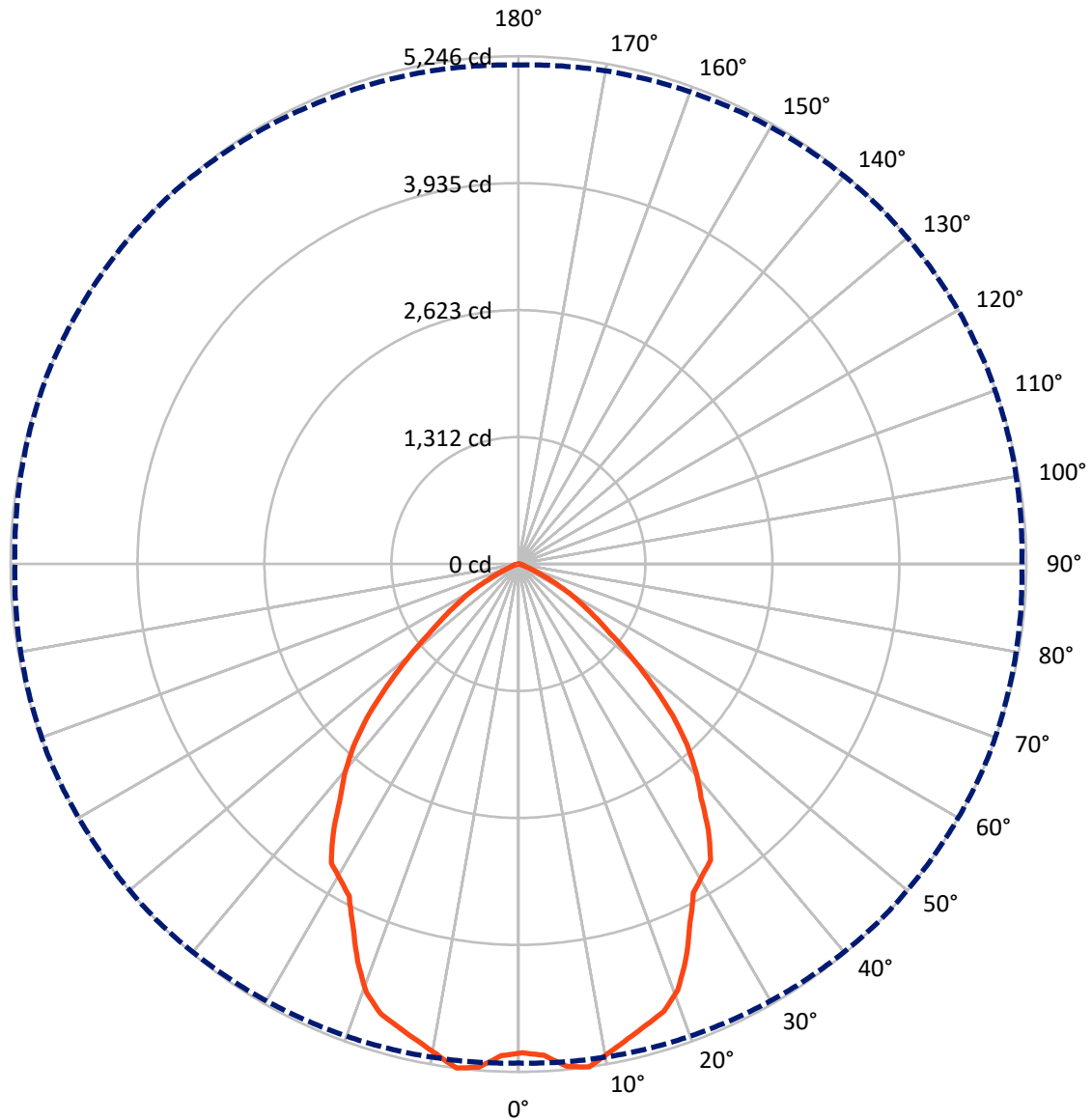
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 50.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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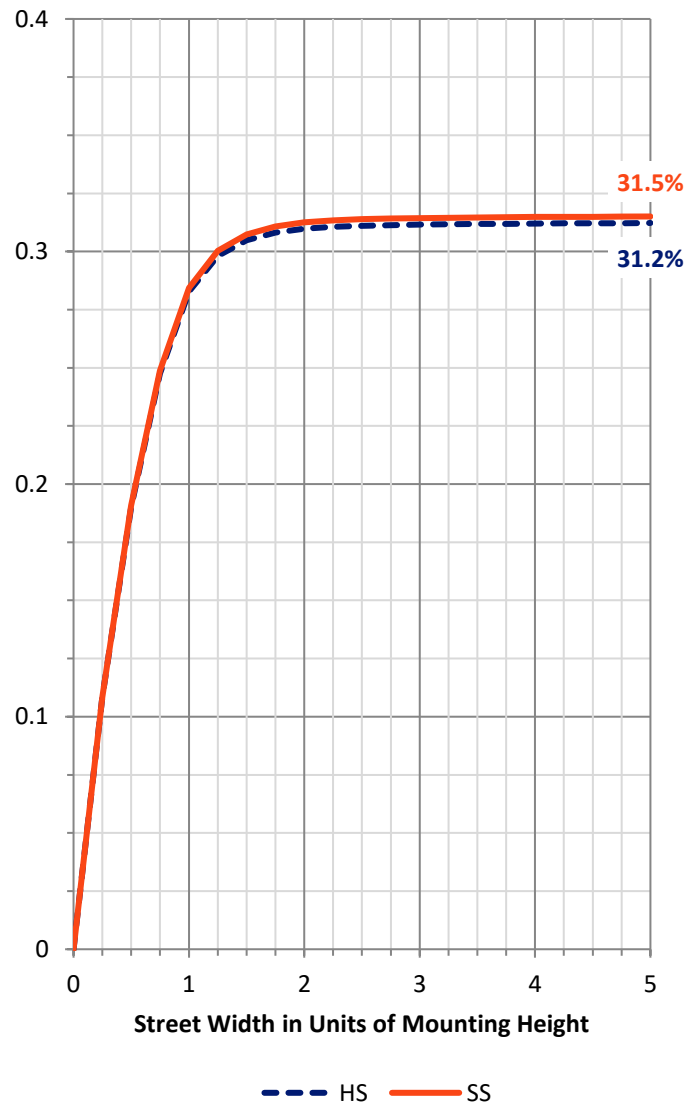
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4713.9	0.0	4713.9
	% Lamp	31.4	0.0	31.4
Street Side	Lumens	4713.9	0.0	4713.9
	% Lamp	31.4	0.0	31.4
Total	Lumens	9427.8	0.0	9427.8
	% Lamp	62.9	0.0	62.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	493.1	5.2	3.3
10°-20°	1397.8	14.8	9.3
20°-30°	1977.0	21.0	13.2
30°-40°	2208.8	23.4	14.7
40°-50°	1965.9	20.9	13.1
50°-60°	1040.7	11.0	6.9
60°-70°	280.6	3.0	1.9
70°-80°	53.9	0.6	0.4
80°-90°	10.0	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	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°	9427.8	100.0	62.9
0°-180°	9427.8	100.0	62.9

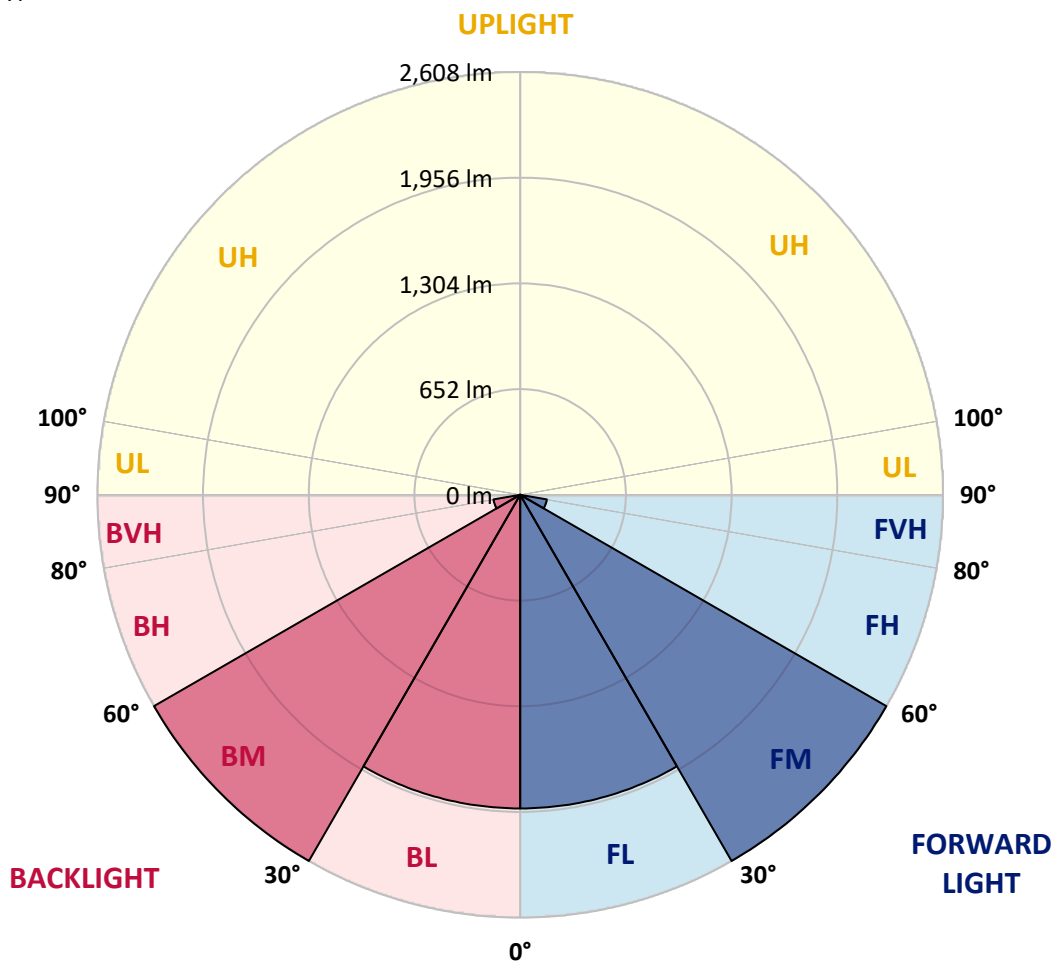


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.0	12.9			
FM (30°-60°)	2607.7	17.4			
FH (60°-80°)	167.3	1.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	1934.0	12.9	B3/2500		
BM (30°-60°)	2607.7	17.4	B3/5000		
BH (60°-80°)	167.3	1.1	B1/500		G0/660
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	5572.2	37.1			

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5048	5048	5048	5048	5048	5048	5048	5048	5048
2.5°	5053	5059	5076	5081	5074	5081	5076	5059	5053
5°	5141	5165	5197	5213	5201	5213	5197	5165	5141
7.5°	5155	5194	5243	5246	5201	5246	5243	5194	5155
10°	5089	5135	5182	5133	5061	5133	5182	5135	5089
12.5°	5064	5056	5034	5032	4970	5032	5034	5056	5064
15°	5124	5026	4864	4942	4935	4942	4864	5026	5124
17.5°	5120	4971	4662	4859	4952	4859	4662	4971	5120
20°	4964	4786	4402	4699	4923	4699	4402	4786	4964
22.5°	4772	4454	4182	4429	4802	4429	4182	4454	4772
25°	4672	4165	4079	4116	4700	4116	4079	4165	4672
27.5°	4657	3893	3972	3850	4696	3850	3972	3893	4657
30°	4616	3762	3782	3738	4717	3738	3782	3762	4616
32.5°	4283	3611	3589	3646	4291	3646	3589	3611	4283
35°	3963	3341	3411	3378	3770	3378	3411	3341	3963
37.5°	3874	3104	3310	3065	3533	3065	3310	3104	3874
40°	3711	2889	3234	2824	3408	2824	3234	2889	3711
42.5°	3298	2585	3107	2552	3191	2552	3107	2585	3298
45°	2762	2190	3166	2235	2772	2235	3166	2190	2762
47.5°	2059	1810	3202	1863	2245	1863	3202	1810	2059
50°	1531	1440	2969	1511	1662	1511	2969	1440	1531
52.5°	1192	1168	2364	1179	1219	1179	2364	1168	1192
55°	987	964	1624	945	994	945	1624	964	987
57.5°	783	777	1042	752	808	752	1042	777	783
60°	585	581	621	579	616	579	621	581	585
62.5°	422	407	406	393	423	393	406	407	422
65°	271	268	232	239	257	239	232	268	271
67.5°	159	155	126	138	141	138	126	155	159
70°	98	98	85	88	95	88	85	98	98
72.5°	70	67	60	64	69	64	60	67	70
75°	49	47	45	47	51	47	45	47	49
77.5°	36	34	33	35	38	35	33	34	36
80°	23	23	23	24	27	24	23	23	23
82.5°	14	13	13	15	17	15	13	13	14
85°	7	7	8	8	9	8	8	7	7
87.5°	3	2	3	3	5	3	3	2	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)