

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: E429-126

Luminaire Tested: **HPQD-GO/GAS/A-150**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: E429-126  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: HPQD-GO/GAS/A-150  
Description: RECESSED COMMERCIAL WITH DROP LENS  
Light Source: 150 WATT HPS COATED ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 15000 (1 lamp)  
Luminaire Lumens: 11432.5 lumens  
Efficiency: 76.2%  
Efficacy: 61.8 lumens/watt  
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U3 - G2

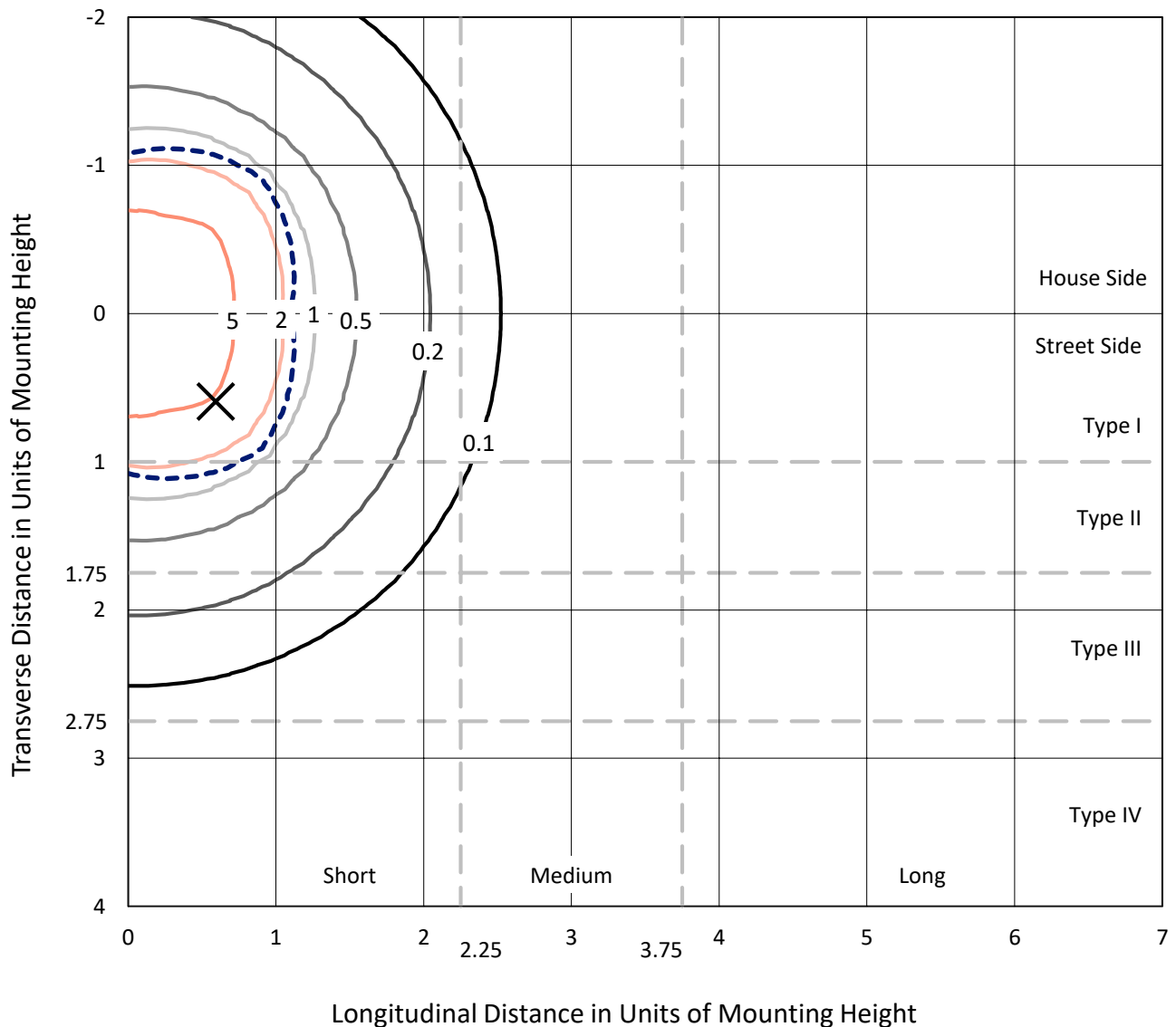
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

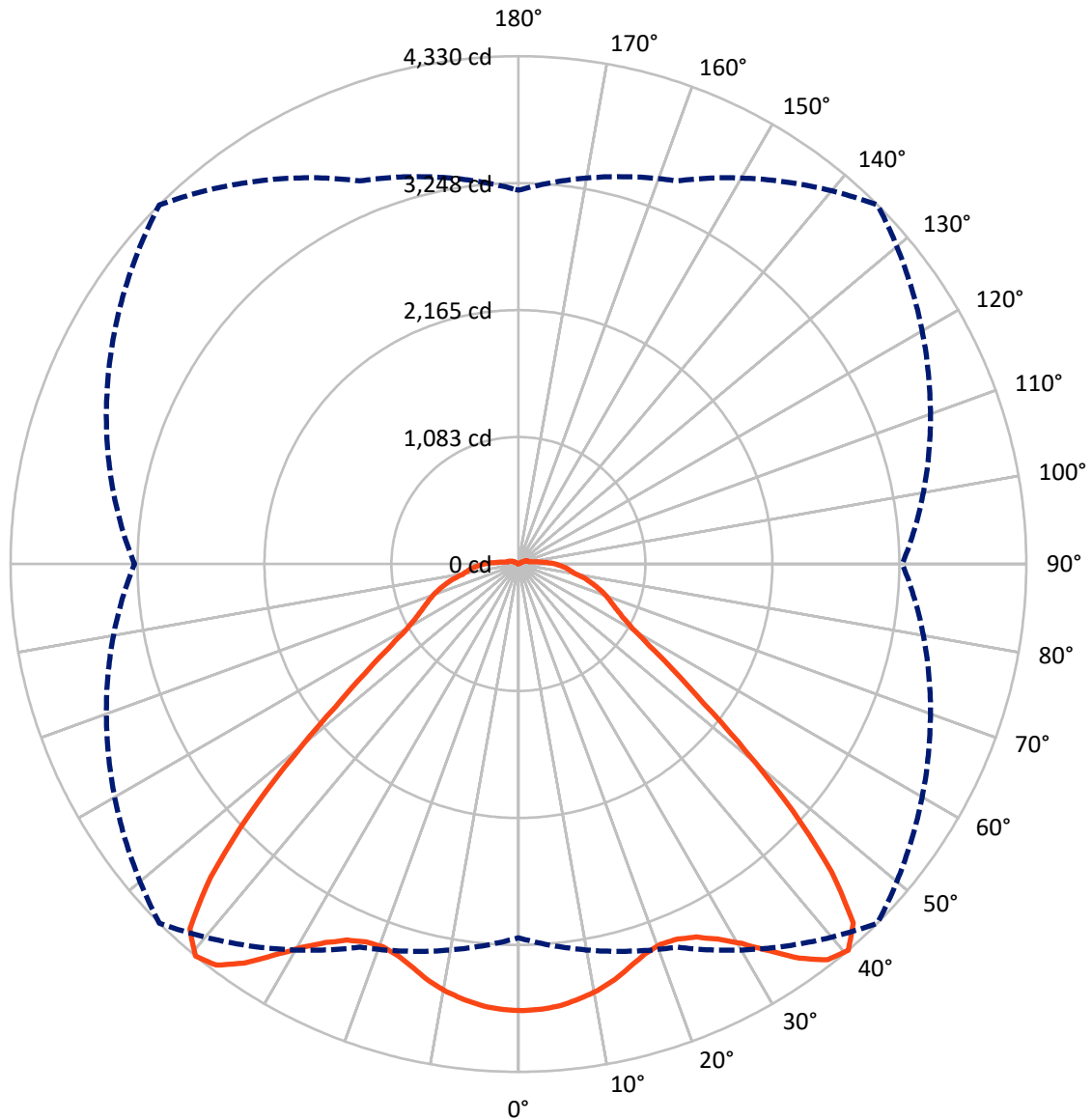
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 40-Deg Vertical

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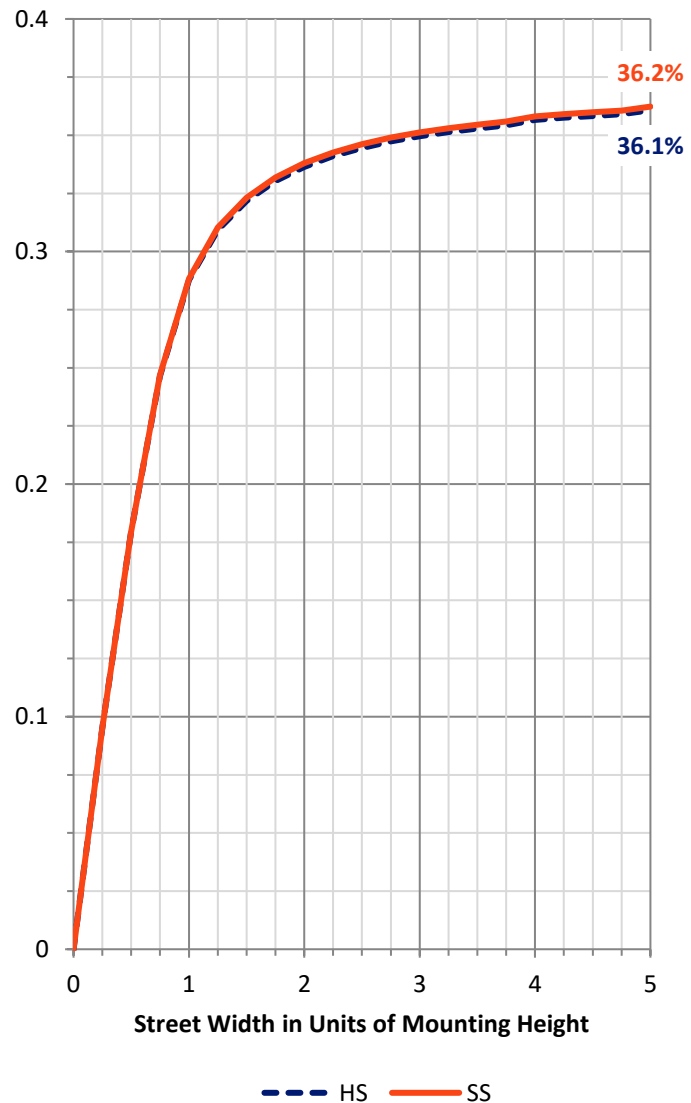
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5541.8	174.5	5716.3
	% Lamp	36.9	1.2	38.1
<b>Street Side</b>	Lumens	5541.8	174.5	5716.3
	% Lamp	36.9	1.2	38.1
<b>Total</b>	Lumens	11083.6	348.9	11432.5
	% Lamp	73.9	2.3	76.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	359.4	3.1	2.4
10°-20°	1019.6	8.9	6.8
20°-30°	1660.3	14.5	11.1
30°-40°	2397.4	21.0	16.0
40°-50°	2309.2	20.2	15.4
50°-60°	1352.1	11.8	9.0
60°-70°	910.5	8.0	6.1
70°-80°	653.6	5.7	4.4
80°-90°	421.6	3.7	2.8
90°-100°	201.3	1.8	1.3
100°-110°	79.7	0.7	0.5
110°-120°	48.8	0.4	0.3
120°-130°	18.2	0.2	0.1
130°-140°	0.9	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°	11083.6	96.9	73.9
0°-180°	11432.5	100.0	76.2



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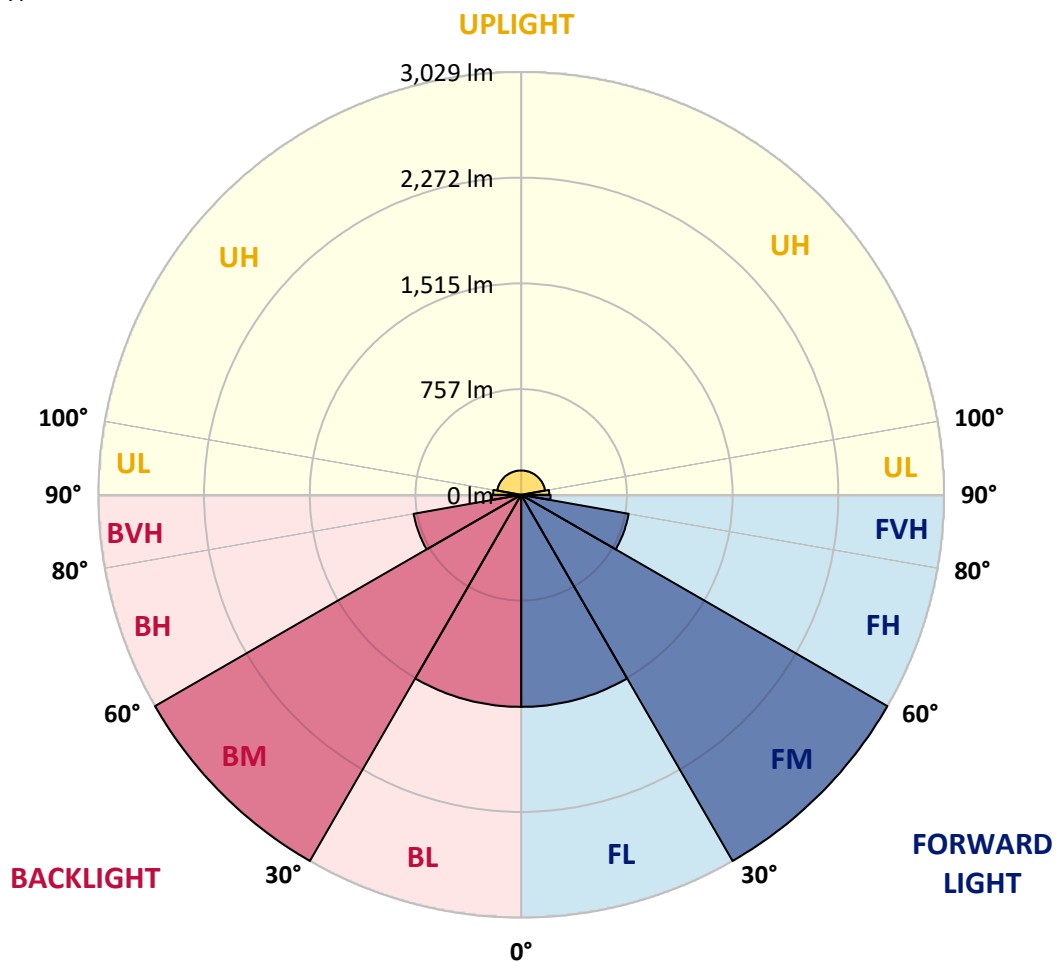
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.6	10.1			
FM (30°-60°)	3029.3	20.2			
FH (60°-80°)	782.0	5.2			G1/1800
FVH (80°-90°)	210.8	1.4			G2/225
BL (0°-30°)	1519.6	10.1	B3/2500		
BM (30°-60°)	3029.3	20.2	B3/5000		
BH (60°-80°)	782.0	5.2	B2/1000		G1/1800
BVH (80°-90°)	210.8	1.4			G2/225
UL (90°-100°)	201.3	1.3		U3/500	
UH (100°-180°)	174.5	1.2		U3/500	
Trapped Light	3567.5	23.8			

**BUG Rating: B3-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3808	3808	3808	3808	3808	3808	3808	3808	3808
2.5°	3801	3798	3801	3804	3809	3804	3801	3798	3801
5°	3797	3790	3781	3776	3778	3776	3781	3790	3797
7.5°	3799	3775	3743	3742	3748	3742	3743	3775	3799
10°	3797	3752	3698	3701	3715	3701	3698	3752	3797
12.5°	3770	3705	3639	3641	3670	3641	3639	3705	3770
15°	3717	3640	3562	3574	3600	3574	3562	3640	3717
17.5°	3647	3574	3494	3500	3529	3500	3494	3574	3647
20°	3592	3521	3461	3476	3498	3476	3461	3521	3592
22.5°	3580	3510	3473	3500	3517	3500	3473	3510	3580
25°	3609	3533	3523	3578	3592	3578	3523	3533	3609
27.5°	3661	3581	3622	3681	3685	3681	3622	3581	3661
30°	3710	3626	3755	3795	3756	3795	3755	3626	3710
32.5°	3719	3683	3932	3903	3780	3903	3932	3683	3719
35°	3639	3701	4128	3968	3711	3968	4128	3701	3639
37.5°	3470	3666	4282	3946	3564	3946	4282	3666	3470
40°	3187	3535	4330	3797	3273	3797	4330	3535	3187
42.5°	2801	3294	4186	3497	2897	3497	4186	3294	2801
45°	2428	2952	3745	3062	2494	3062	3745	2952	2428
47.5°	2063	2518	3150	2595	2104	2595	3150	2518	2063
50°	1723	2094	2520	2096	1784	2096	2520	2094	1723
52.5°	1510	1725	1978	1737	1555	1737	1978	1725	1510
55°	1307	1448	1610	1443	1352	1443	1610	1448	1307
57.5°	1178	1251	1320	1252	1209	1252	1320	1251	1178
60°	1073	1121	1117	1110	1092	1110	1117	1121	1073
62.5°	977	1016	997	1003	988	1003	997	1016	977
65°	893	921	911	913	902	913	911	921	893
67.5°	814	837	846	831	822	831	846	837	814
70°	738	756	785	759	752	759	785	756	738
72.5°	667	684	715	683	677	683	715	684	667
75°	593	617	645	615	603	615	645	617	593
77.5°	525	551	572	546	536	546	572	551	525
80°	464	471	482	478	474	478	482	471	464
85°	379	388	403	394	388	394	403	388	379
90°	261	287	303	292	272	292	303	287	261
95°	174	177	179	178	179	178	179	177	174
100°	90	94	98	97	92	97	98	94	90
105°	63	70	87	70	66	70	87	70	63
110°	58	54	75	54	59	54	75	54	58
115°	54	46	55	46	53	46	55	46	54
120°	46	37	23	37	45	37	23	37	46
125°	35	23	0	23	34	23	0	23	35
130°	14	2	0	2	12	2	0	2	14
135°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)