

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: PORTFOLIO

Report Number: P247338

Luminaire Tested: **LD8B80D010 ER8B80830 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80830 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8622.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

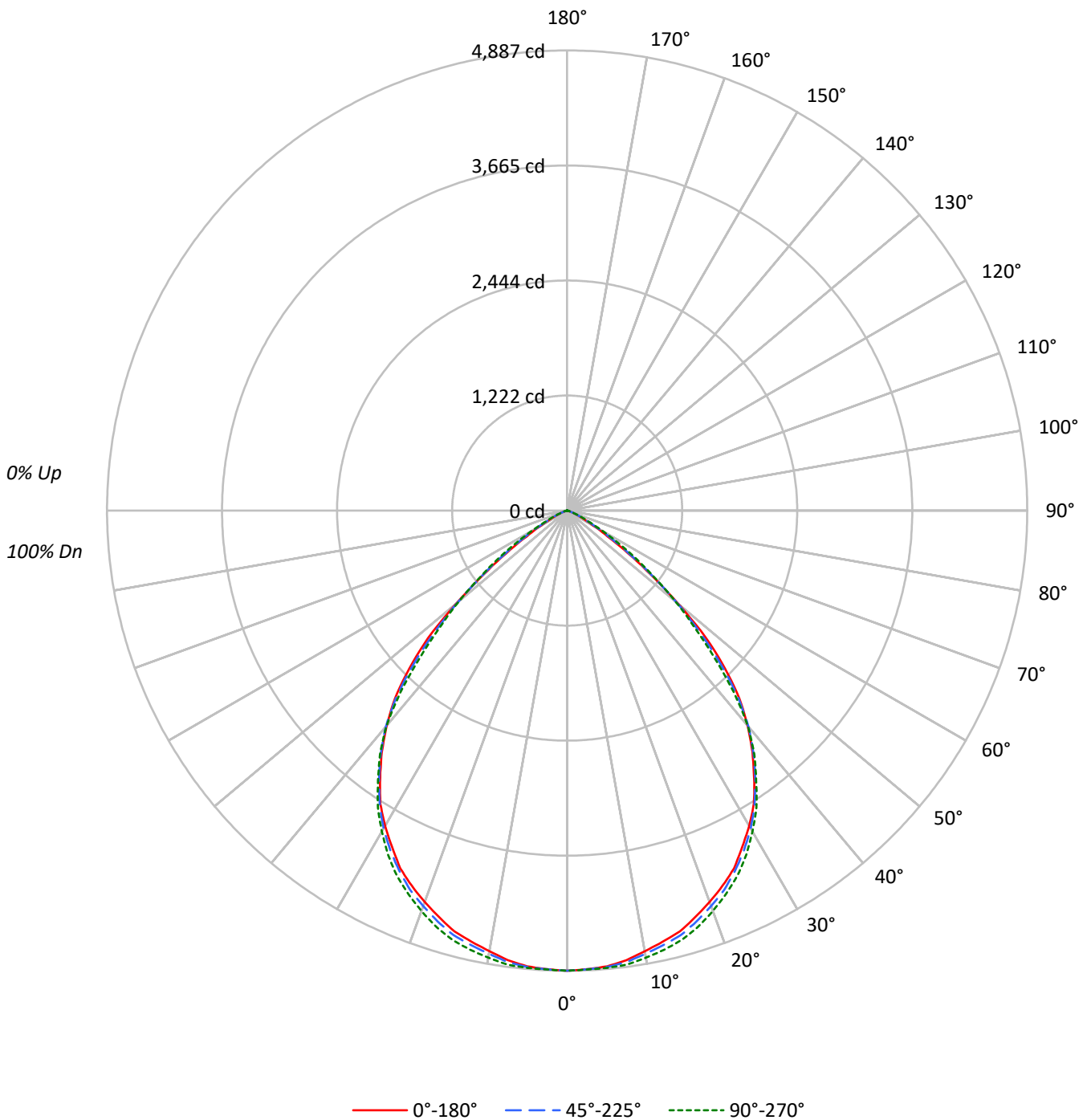
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	150700	150700	150700
5°	150381	150620	150889
10°	148779	149653	150977
15°	147726	149015	150612
20°	145162	146675	148473
25°	142656	143572	145569
30°	137716	138813	140116
35°	130320	131118	131804
40°	120001	120581	120271
45°	103458	100733	96708
50°	73859	72751	71873
55°	42391	44928	48649
60°	20105	23547	27222
65°	9471	11434	13119
70°	4418	4941	5635
75°	2061	2979	3431
80°	1705	1545	2397
85°	672	1698	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.8	5.4
10°-20°	1314.0	15.2
20°-30°	1941.2	22.5
30°-40°	2169.2	25.2
40°-50°	1751.2	20.3
50°-60°	778.9	9.0
60°-70°	175.4	2.0
70°-80°	27.1	0.3
80°-90°	3.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3716.9	43.1
0°-40°	5886.1	68.3
0°-60°	8416.2	97.6
0°-90°	8622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4887	4887	4887	4887	4887	
5°	4858	4857	4866	4867	4875	460
15°	4627	4630	4668	4702	4718	1301
25°	4193	4193	4220	4254	4278	1922
35°	3462	3460	3483	3487	3501	2158
45°	2372	2354	2310	2228	2218	1794
55°	788	800	836	879	905	742
65°	130	146	157	170	180	151
75°	17	24	25	24	29	22
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4887.1	4887.1	4887.1	4887.1	4887.1
2.5°	4874.6	4871.7	4876.5	4873.6	4878.4
5°	4858.2	4857.3	4865.9	4866.9	4874.6
7.5°	4815.9	4816.9	4835.2	4848.6	4864.0
10°	4751.5	4755.3	4779.4	4809.2	4821.7
12.5°	4689.9	4694.8	4725.5	4766.9	4776.5
15°	4627.4	4630.3	4667.8	4702.4	4717.8
17.5°	4525.5	4544.7	4573.6	4613.0	4633.2
20°	4423.6	4437.0	4469.7	4513.0	4524.5
22.5°	4312.0	4326.4	4359.1	4394.7	4407.2
25°	4192.8	4192.8	4219.7	4254.3	4278.4
27.5°	4026.4	4046.6	4065.8	4096.6	4120.6
30°	3867.7	3875.4	3898.5	3923.5	3935.1
32.5°	3691.8	3692.7	3703.3	3731.2	3741.8
35°	3461.9	3460.0	3483.1	3486.9	3501.3
37.5°	3232.1	3241.7	3250.4	3263.8	3264.8
40°	2981.1	2985.9	2995.5	2981.1	2987.8
42.5°	2708.0	2701.3	2683.0	2639.7	2621.4
45°	2372.4	2354.1	2309.9	2228.1	2217.6
47.5°	2002.1	1956.9	1903.1	1842.5	1831.0
50°	1539.6	1543.4	1516.5	1496.3	1498.2
52.5°	1122.2	1135.7	1142.4	1161.7	1172.2
55°	788.5	800.1	835.7	878.9	904.9
57.5°	510.6	532.8	578.9	628.0	646.2
60°	326.0	340.4	381.8	417.4	441.4
62.5°	213.5	218.3	241.4	274.1	275.0
65°	129.8	146.2	156.7	170.2	179.8
67.5°	84.6	84.6	94.2	106.7	109.6
70°	49.0	50.0	54.8	59.6	62.5
72.5°	26.9	29.8	32.7	37.5	42.3
75°	17.3	24.0	25.0	24.0	28.8
77.5°	11.5	11.5	9.6	16.3	17.3
80°	9.6	6.7	8.7	12.5	13.5
82.5°	0.0	1.0	1.0	1.9	0.0
85°	1.9	2.9	4.8	10.6	2.9
87.5°	0.0	2.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)