

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: P247482

Luminaire Tested: **LD8B80D010 ER8B80830 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80830 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7300.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

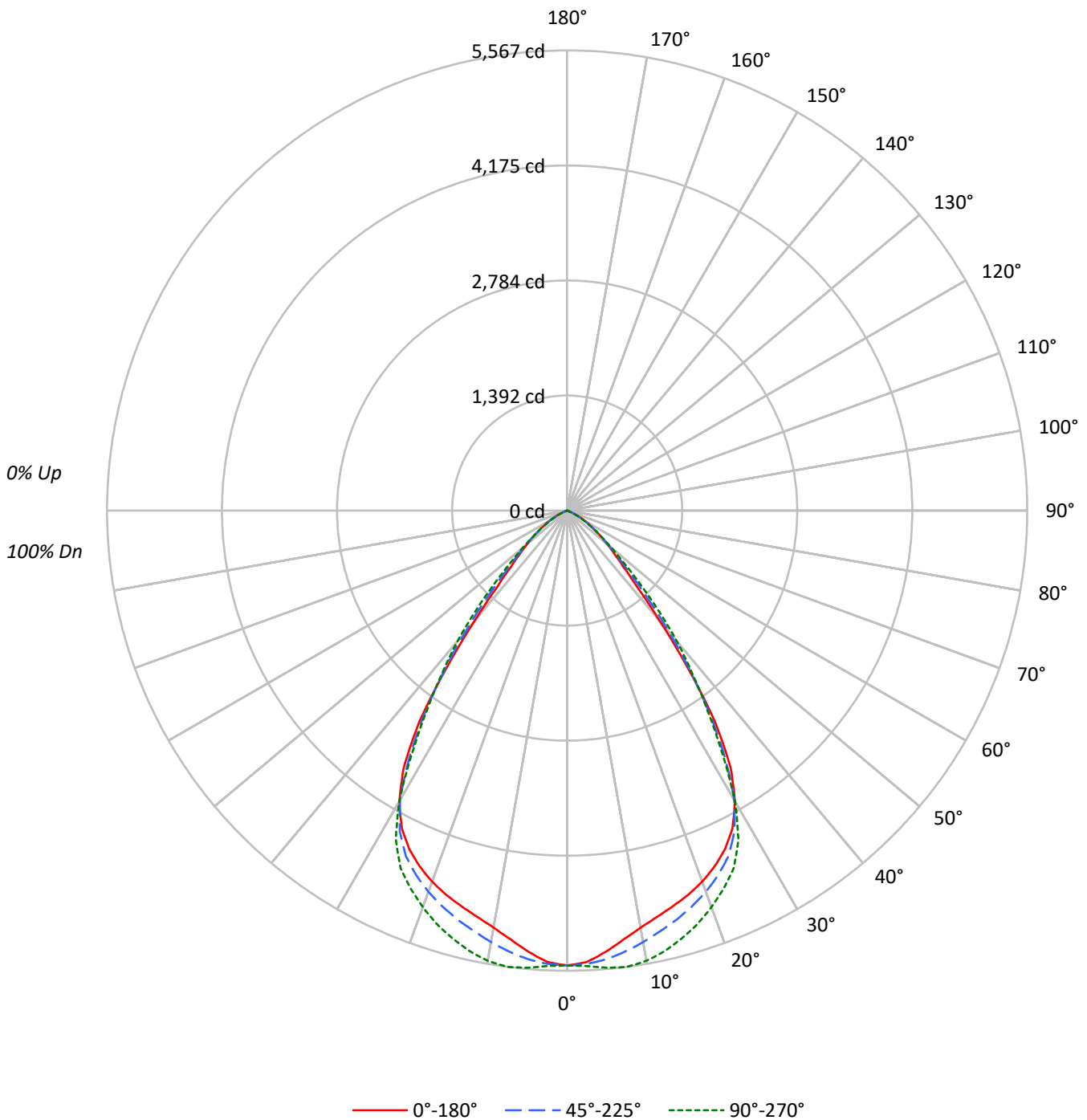
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53				53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49				49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46				46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42				42

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

	0°	45°	90°
0°	169701	169701	169701
5°	165855	168653	171866
10°	160364	165966	173193
15°	158098	163499	171081
20°	156769	161058	167529
25°	153741	157014	162281
30°	144524	143979	144663
35°	117431	113482	111747
40°	69716	76837	83225
45°	41725	46967	53343
50°	30400	31182	33490
55°	22021	21247	21714
60°	14943	13821	13284
65°	7508	6946	6596
70°	2083	1821	1650
75°	798	572	572
80°	337	337	178
85°	354	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.0	7.1
10°-20°	1449.0	19.8
20°-30°	2106.1	28.9
30°-40°	1862.4	25.5
40°-50°	886.0	12.1
50°-60°	369.1	5.1
60°-70°	103.1	1.4
70°-80°	7.8	0.1
80°-90°	0.6	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°	4071.1	55.8
0°-40°	5933.5	81.3
0°-60°	7188.5	98.5
0°-90°	7300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5503	5503	5503	5503	5503	
5°	5358	5385	5448	5521	5552	504
15°	4952	4998	5122	5277	5359	1399
25°	4519	4539	4615	4717	4770	2065
35°	3120	3075	3015	2968	2968	1867
45°	957	990	1077	1177	1223	797
55°	410	405	395	395	404	373
65°	103	101	95	91	90	112
75°	7	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5503.3	5503.3	5503.3	5503.3	5503.3
2.5°	5466.7	5471.5	5489.8	5507.1	5514.8
5°	5358.1	5385.0	5448.5	5520.6	5552.3
7.5°	5234.0	5274.4	5381.2	5508.1	5566.7
10°	5121.5	5172.5	5300.4	5457.1	5531.2
12.5°	5033.0	5080.2	5210.9	5374.4	5458.1
15°	4952.3	4997.5	5121.5	5277.3	5359.0
17.5°	4871.5	4914.8	5021.5	5166.7	5245.6
20°	4777.3	4811.9	4908.0	5035.9	5105.2
22.5°	4659.9	4691.7	4772.5	4885.9	4948.4
25°	4518.6	4538.8	4614.8	4716.7	4769.6
27.5°	4331.1	4335.9	4382.0	4448.4	4487.8
30°	4058.9	4056.1	4043.6	4040.7	4062.8
32.5°	3678.1	3635.8	3562.8	3528.1	3501.2
35°	3119.5	3075.2	3014.6	2968.5	2968.5
37.5°	2384.8	2423.2	2447.3	2476.1	2490.6
40°	1731.9	1788.6	1908.8	2033.8	2067.5
42.5°	1258.7	1311.6	1441.4	1580.9	1621.3
45°	956.8	990.5	1077.0	1177.0	1223.2
47.5°	773.1	782.7	826.0	885.6	907.8
50°	633.7	636.6	650.0	680.8	698.1
52.5°	512.5	510.6	514.5	523.1	530.8
55°	409.6	404.8	395.2	395.2	403.9
57.5°	316.4	309.6	299.1	294.3	291.4
60°	242.3	235.6	224.1	216.4	215.4
62.5°	174.1	168.3	156.7	150.0	148.1
65°	102.9	101.0	95.2	91.4	90.4
67.5°	48.1	46.2	41.3	39.4	38.5
70°	23.1	22.1	20.2	19.2	18.3
72.5°	11.5	11.5	9.6	9.6	9.6
75°	6.7	5.8	4.8	4.8	4.8
77.5°	3.8	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)