

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: P247566

Luminaire Tested: **LD8B80D010 ER8B809727 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809727 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5820.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

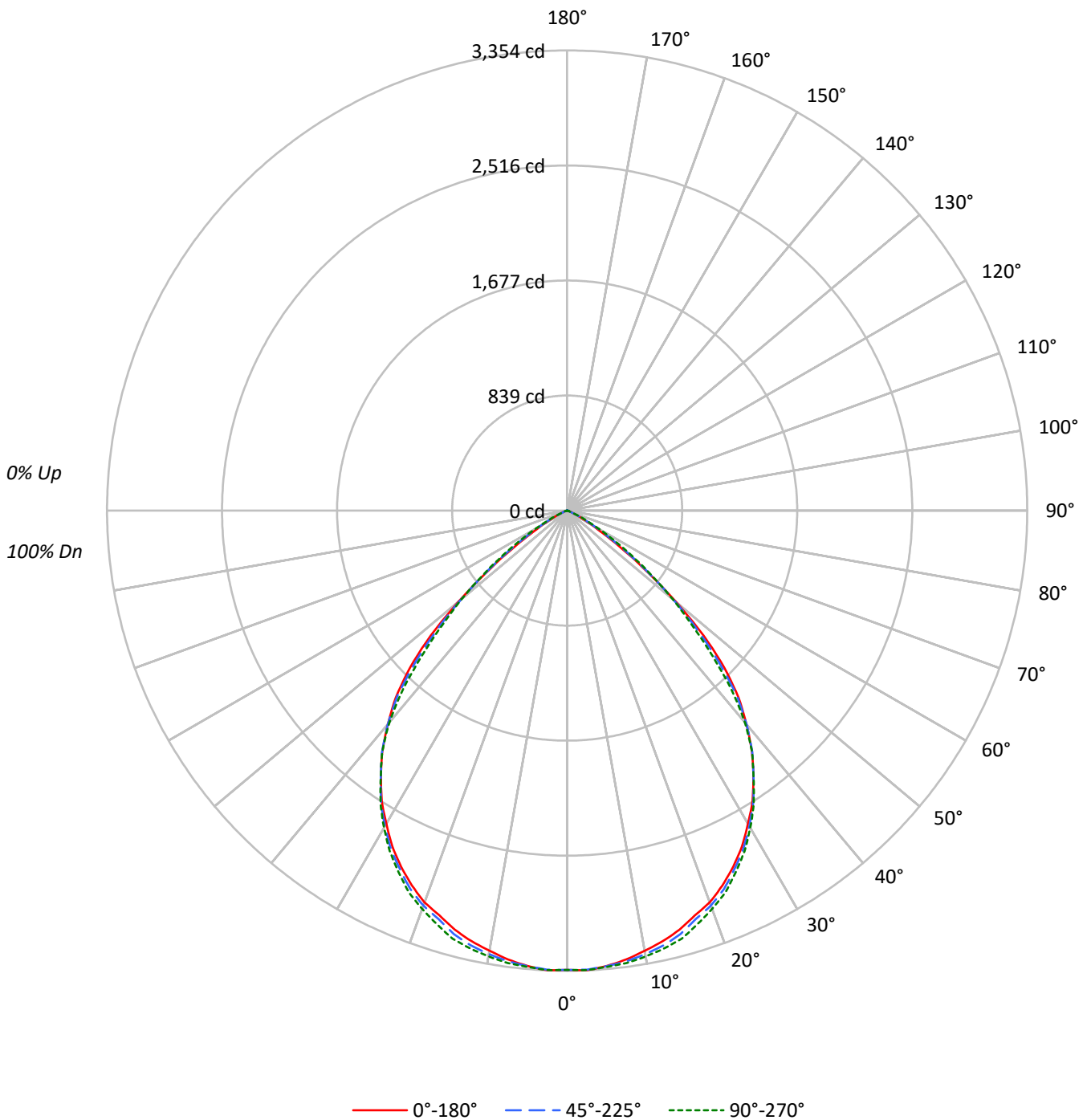
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.7	5.4
10°-20°	899.4	15.5
20°-30°	1326.4	22.8
30°-40°	1476.4	25.4
40°-50°	1188.2	20.4
50°-60°	505.3	8.7
60°-70°	94.7	1.6
70°-80°	11.5	0.2
80°-90°	1.4	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°	2542.6	43.7
0°-40°	4018.9	69.1
0°-60°	5712.4	98.2
0°-90°	5820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3348	3348	3348	3348	3348	
5°	3331	3332	3333	3338	3338	316
15°	3162	3180	3195	3219	3230	891
25°	2864	2874	2884	2901	2908	1316
35°	2366	2366	2368	2368	2368	1473
45°	1623	1610	1566	1519	1496	1220
55°	501	512	543	565	579	478
65°	63	70	79	84	94	81
75°	6	8	12	11	10	10
85°	0	0	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°	3348.1	3348.1	3348.1	3348.1	3348.1
2.5°	3353.7	3355.8	3348.8	3350.2	3352.3
5°	3331.4	3332.1	3332.8	3338.4	3337.7
7.5°	3300.1	3304.9	3313.3	3323.7	3326.5
10°	3257.6	3270.1	3282.7	3295.2	3299.4
12.5°	3215.8	3223.5	3245.8	3258.3	3268.7
15°	3162.2	3179.6	3194.9	3219.3	3229.7
17.5°	3093.9	3106.5	3121.1	3145.5	3160.1
20°	3038.9	3042.4	3063.3	3084.9	3089.8
22.5°	2957.5	2965.1	2986.7	3001.3	3013.9
25°	2863.5	2873.9	2884.3	2901.1	2908.0
27.5°	2760.4	2766.7	2781.3	2793.1	2799.4
30°	2635.7	2649.7	2655.9	2661.5	2669.9
32.5°	2514.6	2518.8	2524.3	2527.8	2532.0
35°	2365.6	2366.2	2367.6	2368.3	2368.3
37.5°	2213.0	2217.9	2216.5	2212.4	2214.4
40°	2032.7	2041.0	2036.2	2023.6	2015.3
42.5°	1850.9	1846.8	1830.0	1792.4	1775.0
45°	1623.2	1610.0	1566.1	1518.8	1496.5
47.5°	1350.3	1321.0	1284.1	1247.2	1232.6
50°	1034.8	1030.6	1013.9	999.3	1000.7
52.5°	741.6	752.1	755.6	769.5	776.4
55°	501.4	512.5	543.2	564.8	578.7
57.5°	305.0	326.6	359.3	394.8	412.9
60°	192.9	205.4	235.4	258.4	266.7
62.5°	120.5	121.2	135.8	153.9	161.6
65°	62.7	69.6	78.7	84.3	94.0
67.5°	39.0	39.0	38.3	46.7	52.2
70°	25.8	22.3	23.0	27.9	29.9
72.5°	9.1	15.3	13.9	13.9	9.7
75°	6.3	7.7	11.8	11.1	10.4
77.5°	8.4	7.7	5.6	4.9	9.7
80°	3.5	2.8	0.7	4.2	4.2
82.5°	3.5	1.4	4.2	5.6	3.5
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)