

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: P247662

Luminaire Tested: **LD8B80D010 ER8B809727 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809727 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5414.0 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

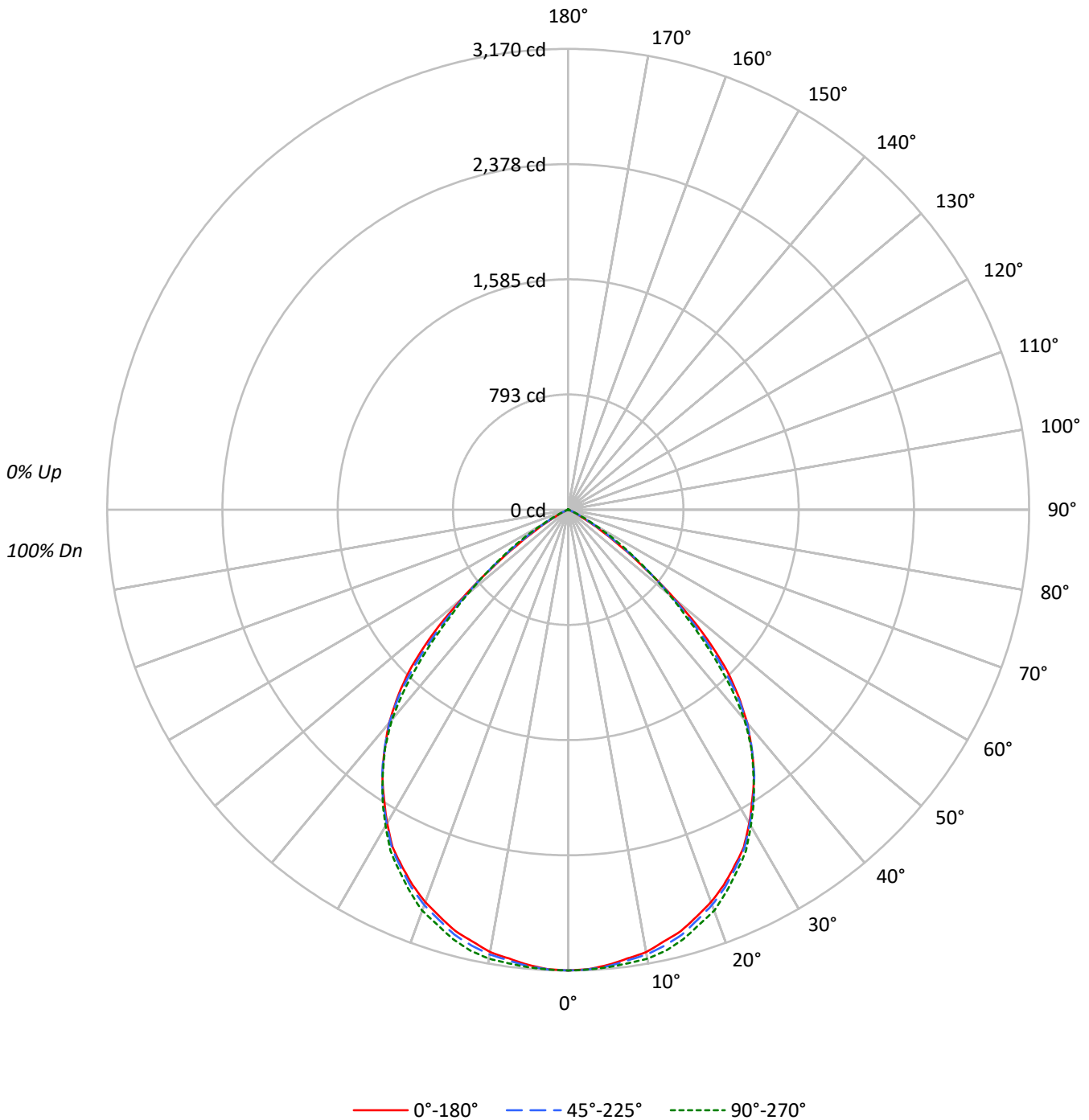
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

**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°	299.4	5.5
10°-20°	851.9	15.7
20°-30°	1251.5	23.1
30°-40°	1385.6	25.6
40°-50°	1104.2	20.4
50°-60°	452.5	8.4
60°-70°	66.6	1.2
70°-80°	1.0	0.0
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°	2402.8	44.4
0°-40°	3788.4	70.0
0°-60°	5345.1	98.7
0°-90°	5414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5414.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3170	3170	3170	3170	3170	
5°	3144	3149	3152	3157	3160	298
15°	3000	3002	3026	3054	3059	844
25°	2706	2703	2720	2736	2745	1244
35°	2227	2224	2231	2228	2222	1384
45°	1519	1505	1457	1403	1390	1140
55°	447	462	486	514	514	430
65°	42	45	52	57	56	56
75°	0	0	0	0	0	2
85°	0	0	0	3	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3170.0	3170.0	3170.0	3170.0	3170.0
2.5°	3164.4	3165.1	3165.1	3161.6	3165.8
5°	3143.5	3149.1	3151.9	3156.8	3159.6
7.5°	3114.3	3112.9	3127.5	3144.9	3147.0
10°	3089.9	3087.1	3106.6	3129.6	3135.9
12.5°	3041.9	3045.4	3070.4	3094.1	3106.6
15°	3000.1	3002.2	3025.9	3054.4	3058.6
17.5°	2935.4	2941.6	2957.6	2987.6	2993.1
20°	2872.0	2874.8	2892.9	2917.3	2935.4
22.5°	2794.7	2799.6	2813.5	2835.1	2844.2
25°	2705.6	2702.8	2720.2	2736.2	2744.6
27.5°	2615.1	2610.2	2623.4	2638.8	2646.4
30°	2489.8	2488.4	2496.0	2505.8	2512.0
32.5°	2358.2	2361.7	2369.3	2372.1	2374.2
35°	2227.3	2224.5	2230.8	2228.0	2221.7
37.5°	2072.0	2074.1	2074.1	2071.3	2068.5
40°	1914.0	1916.1	1911.9	1896.6	1885.4
42.5°	1728.8	1730.2	1708.6	1674.5	1651.5
45°	1519.2	1505.3	1457.2	1402.9	1390.4
47.5°	1255.3	1231.7	1181.5	1140.4	1125.8
50°	960.1	942.7	926.0	904.4	900.2
52.5°	673.3	682.3	688.6	695.5	693.5
55°	447.0	462.3	486.0	513.8	514.5
57.5°	268.7	286.2	316.1	346.7	361.4
60°	158.0	165.0	186.6	209.6	216.5
62.5°	85.6	87.7	97.5	120.5	117.0
65°	42.5	44.6	52.2	57.1	55.7
67.5°	20.9	23.0	24.4	31.3	25.8
70°	4.9	1.4	2.8	3.5	1.4
72.5°	0.0	0.0	1.4	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0	2.8
80°	6.3	4.2	1.4	1.4	2.1
82.5°	2.1	0.7	2.1	0.7	0.0
85°	0.0	0.0	0.0	2.8	0.0
87.5°	3.5	0.7	0.7	2.1	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)