

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: P247182

Luminaire Tested: **LD8B80D010 ER8B809727 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809727 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5872.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

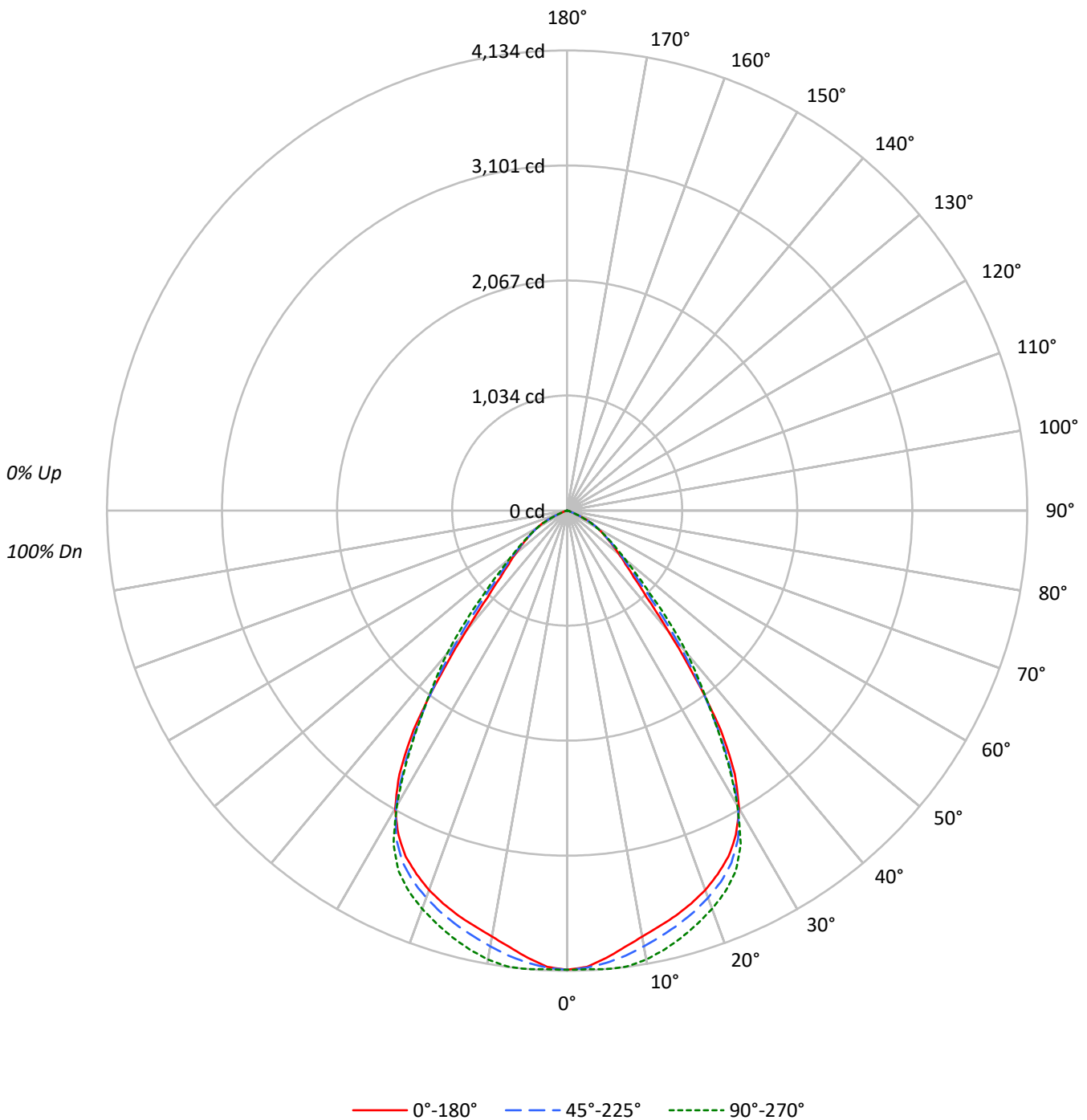
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

**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°	386.4	6.6
10°-20°	1088.8	18.5
20°-30°	1592.4	27.1
30°-40°	1442.9	24.6
40°-50°	767.2	13.1
50°-60°	409.5	7.0
60°-70°	167.0	2.8
70°-80°	16.9	0.3
80°-90°	1.0	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°	3067.6	52.2
0°-40°	4510.5	76.8
0°-60°	5687.2	96.9
0°-90°	5872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4125	4125	4125	4125	4125	
5°	4034	4045	4078	4115	4134	380
15°	3768	3790	3851	3930	3971	1063
25°	3430	3444	3492	3552	3580	1567
35°	2404	2371	2321	2304	2308	1445
45°	848	873	946	1021	1048	694
55°	442	441	450	456	464	401
65°	173	172	168	158	159	172
75°	12	12	12	11	11	18
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4125.3	4125.3	4125.3	4125.3	4125.3
2.5°	4103.1	4102.4	4110.0	4119.1	4124.0
5°	4034.1	4044.6	4078.0	4114.9	4134.4
7.5°	3956.2	3975.7	4033.4	4096.8	4130.9
10°	3885.8	3910.9	3974.3	4057.1	4094.7
12.5°	3825.3	3849.6	3913.7	3998.6	4039.7
15°	3768.2	3789.7	3851.0	3930.4	3970.8
17.5°	3702.0	3722.9	3782.1	3857.3	3892.1
20°	3627.5	3644.9	3700.6	3770.9	3806.5
22.5°	3534.9	3553.7	3610.1	3674.9	3708.3
25°	3429.8	3444.4	3491.7	3551.6	3579.5
27.5°	3283.6	3296.8	3324.6	3356.7	3377.6
30°	3090.0	3086.5	3076.1	3066.3	3057.3
32.5°	2804.5	2771.1	2720.3	2688.3	2689.7
35°	2404.2	2370.8	2321.3	2303.9	2308.1
37.5°	1878.5	1903.6	1923.8	1957.2	1973.2
40°	1407.8	1451.0	1553.4	1642.5	1679.4
42.5°	1058.3	1100.8	1208.0	1302.0	1352.8
45°	848.0	873.1	945.5	1020.7	1047.9
47.5°	710.2	721.3	763.1	811.1	834.8
50°	607.8	614.8	637.1	663.5	678.9
52.5°	520.8	523.6	534.7	550.0	559.8
55°	442.1	441.4	449.8	456.1	463.7
57.5°	373.9	373.2	373.2	375.3	380.2
60°	315.4	313.3	313.3	310.5	311.9
62.5°	256.9	254.8	250.0	246.5	245.1
65°	172.7	172.0	167.8	158.1	158.7
67.5°	89.8	89.1	84.9	82.2	80.8
70°	48.0	46.6	44.6	42.5	41.1
72.5°	24.4	23.7	23.0	21.6	21.6
75°	12.5	12.5	11.8	11.1	11.1
77.5°	6.3	6.3	5.6	5.6	5.6
80°	3.5	3.5	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
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)