

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: P247279

Luminaire Tested: **LD8B90D010 ER8B909727 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B909727 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6470.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

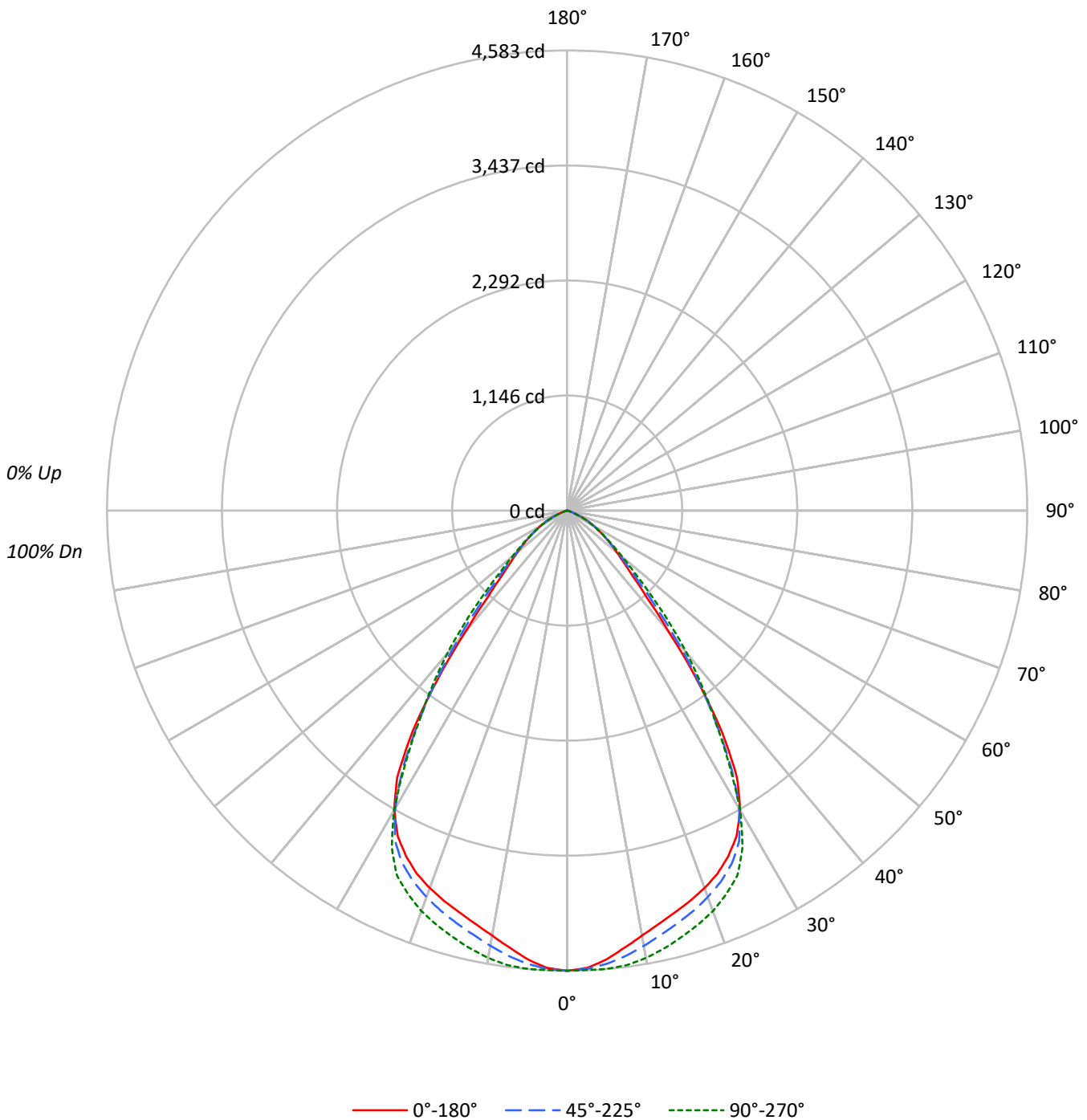
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	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°	428.6	6.6
10°-20°	1203.6	18.6
20°-30°	1772.6	27.4
30°-40°	1612.2	24.9
40°-50°	834.6	12.9
50°-60°	418.1	6.5
60°-70°	170.3	2.6
70°-80°	27.1	0.4
80°-90°	2.9	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°	3404.7	52.6
0°-40°	5016.9	77.5
0°-60°	6269.6	96.9
0°-90°	6470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4583	4583	4583	4583	4583	
5°	4488	4499	4531	4565	4581	422
15°	4144	4172	4254	4352	4399	1171
25°	3797	3822	3880	3969	4011	1738
35°	2684	2666	2589	2567	2583	1618
45°	920	952	1023	1102	1151	758
55°	455	453	453	462	470	413
65°	176	175	169	166	164	177
75°	24	23	21	20	20	30
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4583.2	4583.2	4583.2	4583.2	4583.2
2.5°	4558.9	4561.3	4567.5	4574.6	4580.1
5°	4487.5	4499.3	4530.7	4565.2	4580.9
7.5°	4390.3	4416.2	4473.4	4537.7	4566.0
10°	4297.7	4327.5	4402.0	4488.3	4524.4
12.5°	4216.2	4245.2	4326.0	4422.4	4467.1
15°	4144.0	4172.3	4253.8	4351.9	4398.9
17.5°	4075.8	4101.7	4179.3	4277.3	4325.2
20°	3999.7	4022.5	4096.2	4191.1	4244.4
22.5°	3913.5	3930.7	3999.7	4089.9	4137.0
25°	3796.6	3822.5	3880.5	3969.1	4010.7
27.5°	3653.9	3670.3	3710.3	3764.4	3781.7
30°	3442.1	3441.3	3428.0	3428.0	3450.0
32.5°	3148.0	3110.4	3046.8	3008.4	3005.3
35°	2683.7	2666.5	2588.8	2566.9	2582.6
37.5°	2117.5	2129.3	2148.9	2180.2	2208.5
40°	1572.4	1602.2	1712.8	1811.6	1854.8
42.5°	1173.3	1211.7	1324.6	1432.8	1485.4
45°	919.9	952.1	1022.7	1101.9	1151.3
47.5°	760.7	777.2	814.8	868.2	893.3
50°	643.9	651.7	669.0	696.4	716.0
52.5°	546.6	543.5	552.9	570.9	578.0
55°	454.9	453.3	453.3	461.9	469.8
57.5°	377.2	374.9	370.2	374.1	376.4
60°	309.0	306.6	302.7	301.9	301.2
62.5°	248.6	244.7	236.8	235.3	235.3
65°	175.7	174.9	168.6	166.3	163.9
67.5°	109.0	105.9	100.4	95.7	94.9
70°	65.1	64.3	59.6	56.5	56.5
72.5°	39.2	37.6	35.3	33.7	32.9
75°	23.5	22.7	21.2	19.6	19.6
77.5°	14.1	13.3	12.5	11.8	11.8
80°	7.8	7.8	7.1	7.1	7.1
82.5°	4.7	4.7	3.9	3.9	3.9
85°	2.4	2.4	2.4	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)