

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: P247159

Luminaire Tested: **LD8B90D010 ER8B90850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247159  
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: LD8B90D010 ER8B90850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9622.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

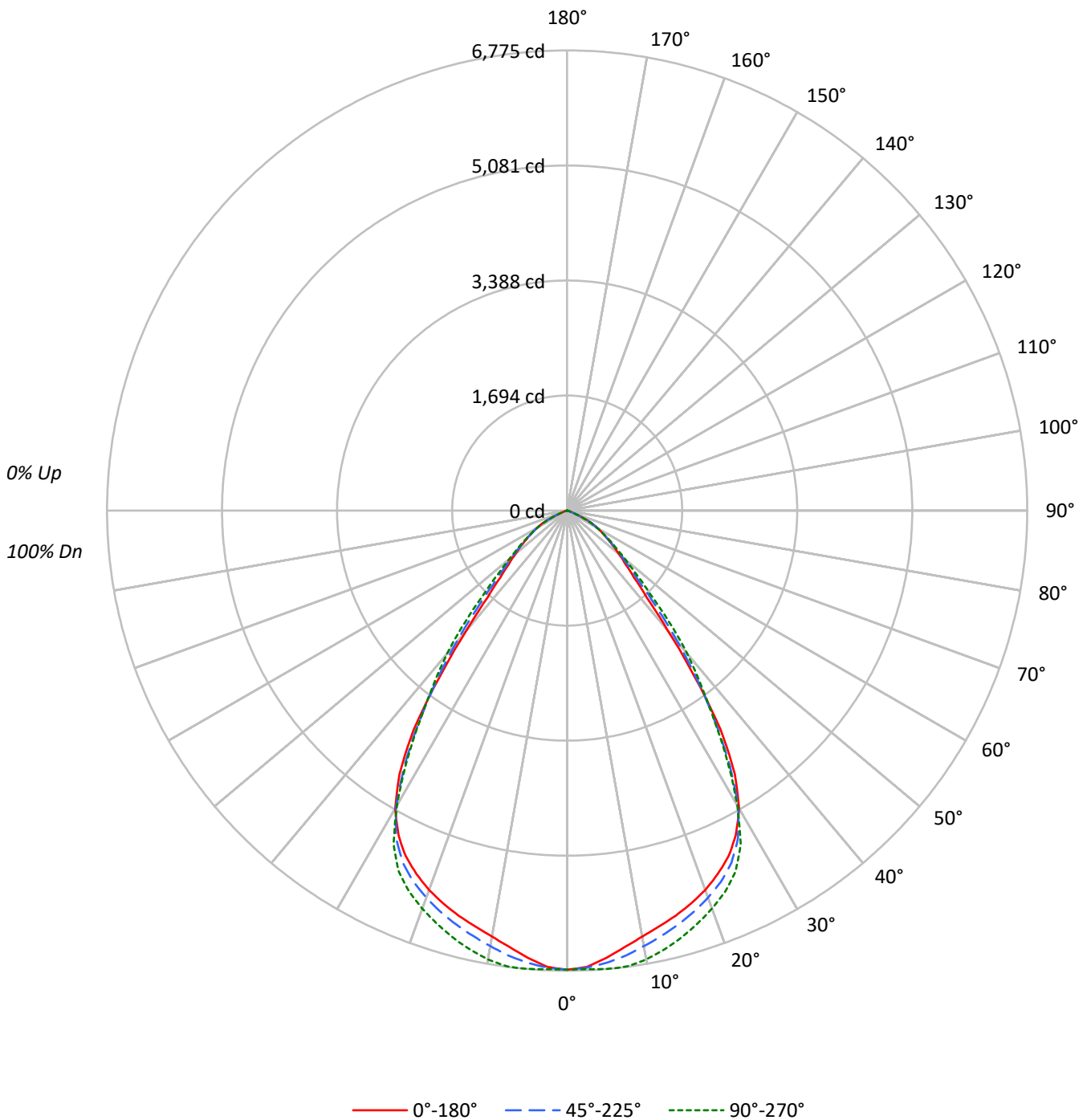
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	208450	208450	208450
5°	204619	206845	209705
10°	199376	203913	210094
15°	197119	201454	207717
20°	195058	198989	204682
25°	191219	194676	199565
30°	180291	179476	178379
35°	148303	143191	142374
40°	92862	102462	110775
45°	60599	67568	74881
50°	47781	50079	53365
55°	38950	39622	40848
60°	31872	31663	31521
65°	20642	20065	18978
70°	7096	6582	6068
75°	2442	2311	2180
80°	1012	817	817
85°	389	389	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	633.2	6.6
10°-20°	1784.1	18.5
20°-30°	2609.3	27.1
30°-40°	2364.3	24.6
40°-50°	1257.2	13.1
50°-60°	670.9	7.0
60°-70°	273.7	2.8
70°-80°	27.6	0.3
80°-90°	1.6	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°	5026.7	52.2
0°-40°	7391.0	76.8
0°-60°	9319.1	96.9
0°-90°	9622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6760	6760	6760	6760	6760	
5°	6610	6628	6682	6743	6775	623
15°	6175	6210	6310	6440	6507	1742
25°	5620	5644	5722	5820	5865	2568
35°	3940	3885	3804	3775	3782	2368
45°	1390	1431	1549	1673	1717	1137
55°	724	723	737	747	760	657
65°	283	282	275	259	260	282
75°	20	20	19	18	18	30
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6759.9	6759.9	6759.9	6759.9	6759.9
2.5°	6723.4	6722.2	6734.8	6749.6	6757.6
5°	6610.4	6627.5	6682.3	6742.8	6774.7
7.5°	6482.7	6514.6	6609.3	6713.1	6769.0
10°	6367.4	6408.5	6512.3	6648.1	6709.7
12.5°	6268.2	6308.1	6413.1	6552.2	6619.6
15°	6174.6	6210.0	6310.4	6440.4	6506.6
17.5°	6066.2	6100.4	6197.4	6320.6	6377.7
20°	5944.1	5972.7	6063.9	6179.2	6237.4
22.5°	5792.4	5823.2	5915.6	6021.7	6076.5
25°	5620.1	5644.1	5721.7	5819.8	5865.4
27.5°	5380.5	5402.2	5447.8	5500.3	5534.6
30°	5063.4	5057.7	5040.5	5024.6	5009.7
32.5°	4595.6	4540.8	4457.5	4405.1	4407.3
35°	3939.6	3884.8	3803.8	3775.3	3782.1
37.5°	3078.2	3119.2	3152.3	3207.1	3233.3
40°	2306.9	2377.7	2545.4	2691.4	2751.9
42.5°	1734.2	1803.8	1979.5	2133.5	2216.8
45°	1389.6	1430.7	1549.4	1672.6	1717.1
47.5°	1163.7	1182.0	1250.4	1329.2	1368.0
50°	996.0	1007.4	1043.9	1087.3	1112.4
52.5°	853.4	858.0	876.2	901.3	917.3
55°	724.5	723.3	737.0	747.3	759.8
57.5°	612.7	611.5	611.5	615.0	622.9
60°	516.8	513.4	513.4	508.8	511.1
62.5°	421.0	417.6	409.6	403.9	401.6
65°	282.9	281.8	275.0	259.0	260.1
67.5°	147.2	146.0	139.2	134.6	132.3
70°	78.7	76.4	73.0	69.6	67.3
72.5°	39.9	38.8	37.7	35.4	35.4
75°	20.5	20.5	19.4	18.3	18.3
77.5°	10.3	10.3	9.1	9.1	9.1
80°	5.7	5.7	4.6	4.6	4.6
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.1	1.1	1.1	1.1	1.1
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)