

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: P247175

Luminaire Tested: **LD8B90D010 ER8B90940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247175  
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 ER8B90940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8461.0 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

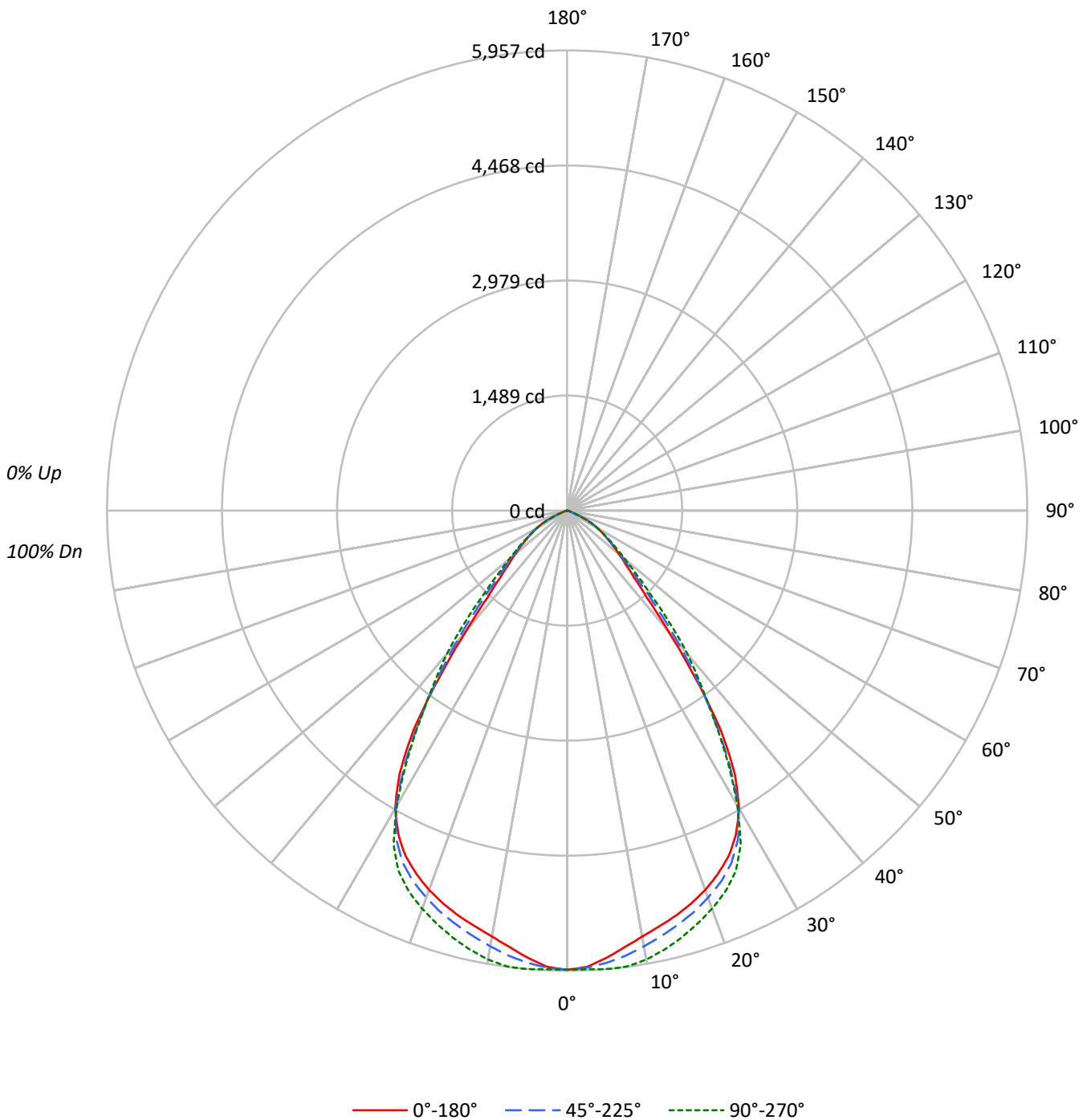
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	183297	183297	183297
5°	179930	181886	184403
10°	175319	179308	184744
15°	173335	177147	182654
20°	171522	174981	179982
25°	168147	171185	175486
30°	158535	157820	156858
35°	130407	125912	125197
40°	81659	90096	97407
45°	53290	59413	65845
50°	42015	44039	46927
55°	34251	34843	35923
60°	28030	27845	27722
65°	18154	17643	16687
70°	6239	5788	5337
75°	2156	2037	1918
80°	888	710	710
85°	354	354	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.8	6.6
10°-20°	1568.9	18.5
20°-30°	2294.5	27.1
30°-40°	2079.1	24.6
40°-50°	1105.5	13.1
50°-60°	590.0	7.0
60°-70°	240.6	2.8
70°-80°	24.3	0.3
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°	4420.1	52.2
0°-40°	6499.2	76.8
0°-60°	8194.7	96.9
0°-90°	8461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5944	5944	5944	5944	5944	
5°	5813	5828	5876	5929	5957	548
15°	5430	5461	5549	5663	5722	1532
25°	4942	4963	5031	5118	5158	2259
35°	3464	3416	3345	3320	3326	2082
45°	1222	1258	1362	1471	1510	1000
55°	637	636	648	657	668	578
65°	249	248	242	228	229	248
75°	18	18	17	16	16	26
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°	5944.2	5944.2	5944.2	5944.2	5944.2
2.5°	5912.1	5911.1	5922.2	5935.2	5942.2
5°	5812.8	5827.9	5876.0	5929.2	5957.3
7.5°	5700.4	5728.5	5811.8	5903.1	5952.3
10°	5599.1	5635.2	5726.5	5845.9	5900.1
12.5°	5511.8	5547.0	5639.2	5761.6	5820.8
15°	5429.6	5460.7	5549.0	5663.3	5721.5
17.5°	5334.3	5364.4	5449.6	5558.0	5608.1
20°	5226.9	5252.0	5332.3	5433.6	5484.7
22.5°	5093.5	5120.6	5201.8	5295.1	5343.3
25°	4942.0	4963.1	5031.3	5117.6	5157.7
27.5°	4731.3	4750.4	4790.5	4836.7	4866.7
30°	4452.4	4447.4	4432.3	4418.3	4405.3
32.5°	4041.1	3992.9	3919.7	3873.5	3875.5
35°	3464.2	3416.1	3344.8	3319.7	3325.8
37.5°	2706.8	2742.9	2772.0	2820.1	2843.2
40°	2028.6	2090.8	2238.2	2366.7	2419.8
42.5°	1524.9	1586.1	1740.6	1876.1	1949.3
45°	1222.0	1258.1	1362.4	1470.8	1509.9
47.5°	1023.3	1039.4	1099.6	1168.8	1202.9
50°	875.8	885.9	918.0	956.1	978.2
52.5°	750.4	754.4	770.5	792.6	806.6
55°	637.1	636.1	648.1	657.1	668.2
57.5°	538.7	537.7	537.7	540.7	547.8
60°	454.5	451.5	451.5	447.4	449.5
62.5°	370.2	367.2	360.2	355.1	353.1
65°	248.8	247.8	241.8	227.7	228.7
67.5°	129.4	128.4	122.4	118.4	116.4
70°	69.2	67.2	64.2	61.2	59.2
72.5°	35.1	34.1	33.1	31.1	31.1
75°	18.1	18.1	17.1	16.1	16.1
77.5°	9.0	9.0	8.0	8.0	8.0
80°	5.0	5.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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)