

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: P247511

Luminaire Tested: **LD8B90D010 ER8B90940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7615.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

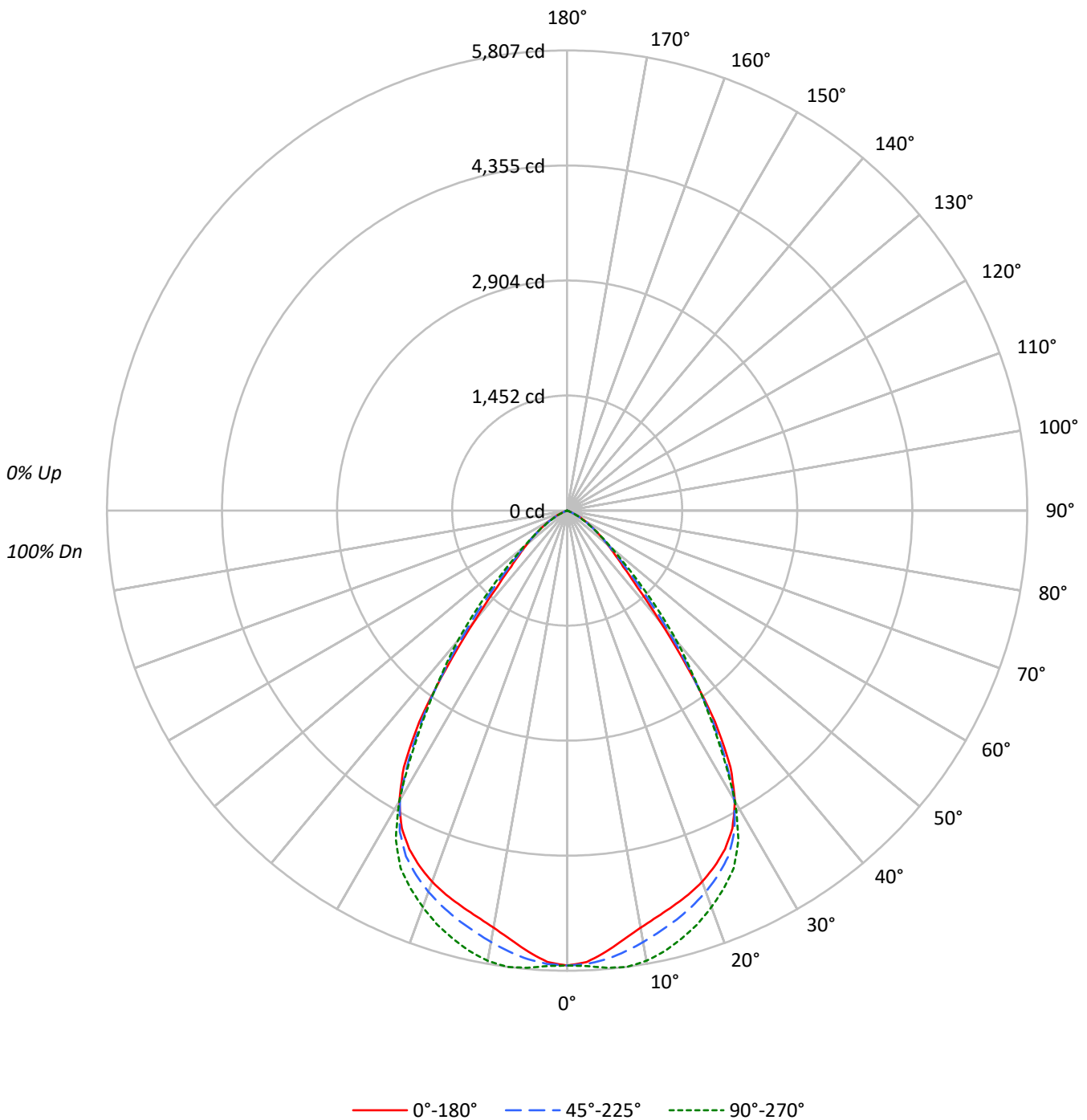
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	177022	177022	177022
5°	173012	175931	179283
10°	167284	173127	180664
15°	164920	170555	178465
20°	163532	168008	174758
25°	160376	163789	169284
30°	150762	150189	150905
35°	122498	118380	116569
40°	72723	80154	86816
45°	43526	48995	55641
50°	31710	32530	34939
55°	22972	22166	22650
60°	15591	14413	13858
65°	7829	7245	6881
70°	2173	1902	1722
75°	834	596	596
80°	355	355	178
85°	354	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.2	7.1
10°-20°	1511.5	19.8
20°-30°	2196.9	28.9
30°-40°	1942.8	25.5
40°-50°	924.2	12.1
50°-60°	385.0	5.1
60°-70°	107.5	1.4
70°-80°	8.1	0.1
80°-90°	0.6	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°	4246.7	55.8
0°-40°	6189.5	81.3
0°-60°	7498.7	98.5
0°-90°	7615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7615.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5741	5741	5741	5741	5741	
5°	5589	5617	5684	5759	5792	526
15°	5166	5213	5342	5505	5590	1459
25°	4714	4735	4814	4920	4975	2154
35°	3254	3208	3145	3097	3097	1948
45°	998	1033	1124	1228	1276	831
55°	427	422	412	412	421	389
65°	107	105	99	95	94	117
75°	7	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5740.7	5740.7	5740.7	5740.7	5740.7
2.5°	5702.6	5707.6	5726.7	5744.8	5752.8
5°	5589.3	5617.4	5683.6	5758.8	5791.9
7.5°	5459.9	5502.0	5613.4	5745.8	5806.9
10°	5342.5	5395.7	5529.1	5692.6	5769.8
12.5°	5250.2	5299.4	5435.8	5606.3	5693.6
15°	5166.0	5213.1	5342.5	5505.0	5590.3
17.5°	5081.7	5126.8	5238.2	5389.7	5471.9
20°	4983.4	5019.5	5119.8	5253.2	5325.5
22.5°	4861.0	4894.1	4978.4	5096.8	5162.0
25°	4713.6	4734.6	4813.9	4920.2	4975.4
27.5°	4518.0	4523.0	4571.1	4640.3	4681.5
30°	4234.1	4231.1	4218.0	4215.0	4238.1
32.5°	3836.9	3792.7	3716.5	3680.4	3652.3
35°	3254.1	3207.9	3144.7	3096.6	3096.6
37.5°	2487.7	2527.8	2552.9	2583.0	2598.0
40°	1806.6	1865.8	1991.2	2121.6	2156.7
42.5°	1313.1	1368.2	1503.6	1649.1	1691.2
45°	998.1	1033.2	1123.5	1227.8	1275.9
47.5°	806.5	816.5	861.7	923.9	946.9
50°	661.0	664.1	678.1	710.2	728.3
52.5°	534.7	532.6	536.7	545.7	553.7
55°	427.3	422.3	412.3	412.3	421.3
57.5°	330.0	323.0	312.0	306.9	303.9
60°	252.8	245.8	233.7	225.7	224.7
62.5°	181.6	175.5	163.5	156.5	154.5
65°	107.3	105.3	99.3	95.3	94.3
67.5°	50.2	48.1	43.1	41.1	40.1
70°	24.1	23.1	21.1	20.1	19.1
72.5°	12.0	12.0	10.0	10.0	10.0
75°	7.0	6.0	5.0	5.0	5.0
77.5°	4.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	0.0	0.0	0.0
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)