

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: P247527

Luminaire Tested: **LD8B90D010 ER8B90827 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90827 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8831.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

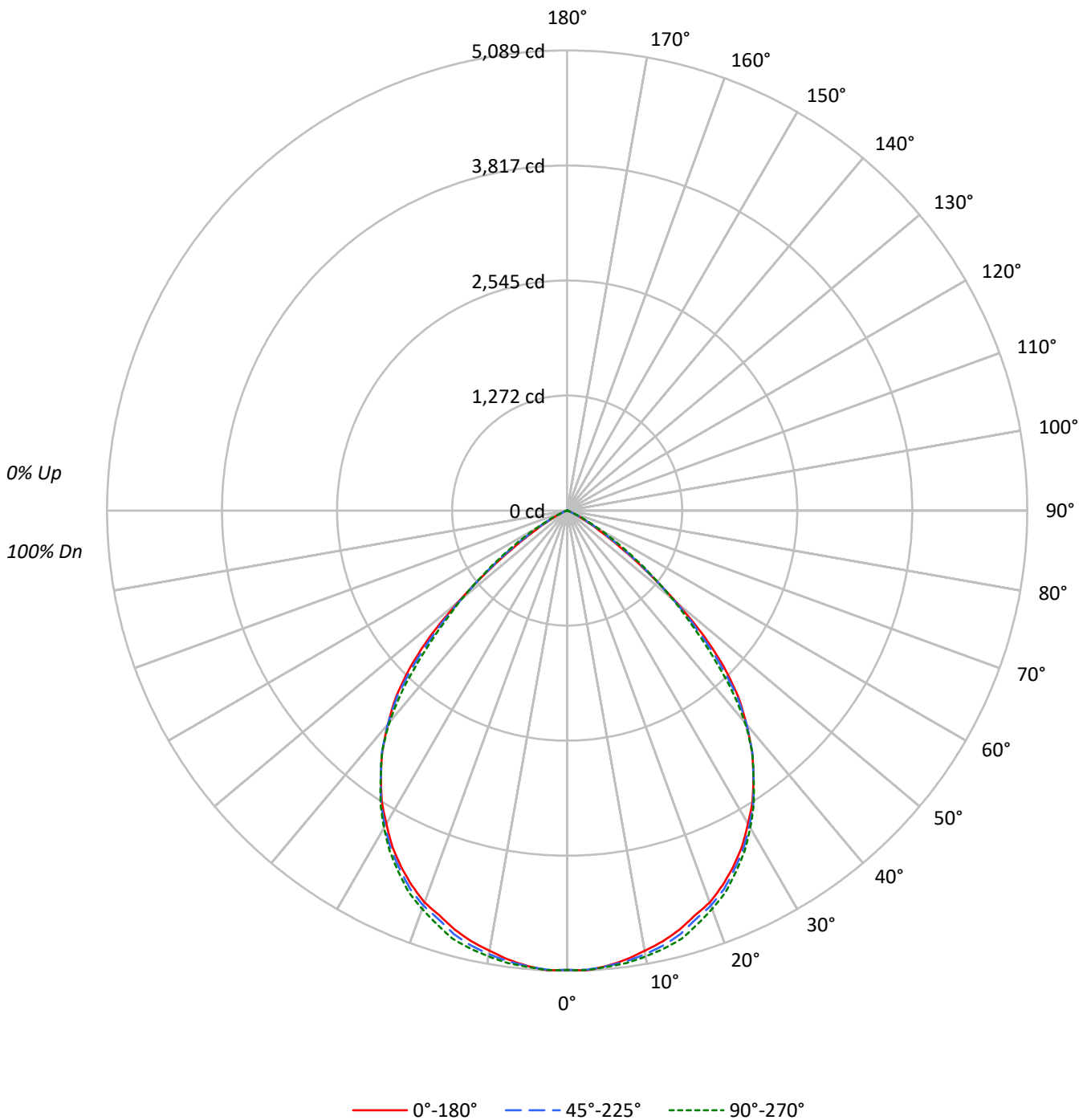
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	156658	156658	156658
5°	156470	156535	156764
10°	154772	155965	156757
15°	153178	154762	156450
20°	151315	152529	153848
25°	147831	148910	150131
30°	142405	143495	144246
35°	135120	135237	135278
40°	124155	124369	123093
45°	107409	103633	99023
50°	75327	73806	72842
55°	40902	44310	47208
60°	18052	22023	24959
65°	6939	8712	10405
70°	3525	3147	4093
75°	1132	2145	1882
80°	941	195	1119
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.6	5.4
10°-20°	1364.8	15.5
20°-30°	2012.7	22.8
30°-40°	2240.2	25.4
40°-50°	1802.9	20.4
50°-60°	766.6	8.7
60°-70°	143.7	1.6
70°-80°	17.4	0.2
80°-90°	2.2	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°	3858.0	43.7
0°-40°	6098.1	69.1
0°-60°	8667.7	98.2
0°-90°	8831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5080	5080	5080	5080	5080	
5°	5055	5056	5057	5066	5064	479
15°	4798	4825	4848	4885	4901	1352
25°	4345	4361	4377	4402	4412	1997
35°	3589	3590	3592	3594	3594	2235
45°	2463	2443	2376	2304	2271	1852
55°	761	778	824	857	878	725
65°	95	106	119	128	143	123
75°	10	12	18	17	16	15
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5080.3	5080.3	5080.3	5080.3	5080.3
2.5°	5088.7	5091.9	5081.3	5083.5	5086.6
5°	5054.9	5056.0	5057.0	5065.5	5064.4
7.5°	5007.4	5014.8	5027.5	5043.3	5047.5
10°	4942.9	4961.9	4981.0	5000.0	5006.3
12.5°	4879.5	4891.1	4925.0	4944.0	4959.8
15°	4798.2	4824.6	4847.8	4884.8	4900.7
17.5°	4694.6	4713.6	4735.8	4772.8	4795.0
20°	4611.1	4616.4	4648.1	4680.9	4688.3
22.5°	4487.5	4499.1	4531.9	4554.1	4573.1
25°	4344.9	4360.7	4376.6	4401.9	4412.5
27.5°	4188.5	4198.0	4220.2	4238.2	4247.7
30°	3999.4	4020.5	4030.0	4038.4	4051.1
32.5°	3815.5	3821.8	3830.3	3835.6	3841.9
35°	3589.4	3590.4	3592.5	3593.6	3593.6
37.5°	3358.0	3365.4	3363.3	3356.9	3360.1
40°	3084.3	3097.0	3089.6	3070.6	3057.9
42.5°	2808.5	2802.2	2776.8	2719.8	2693.4
45°	2463.0	2442.9	2376.4	2304.5	2270.7
47.5°	2048.8	2004.4	1948.4	1892.4	1870.2
50°	1570.2	1563.8	1538.5	1516.3	1518.4
52.5°	1125.3	1141.2	1146.4	1167.6	1178.1
55°	760.8	777.7	824.2	856.9	878.1
57.5°	462.8	495.6	545.2	599.1	626.6
60°	292.7	311.7	357.1	392.0	404.7
62.5°	182.8	183.9	206.0	233.5	245.1
65°	95.1	105.7	119.4	127.9	142.6
67.5°	59.2	59.2	58.1	70.8	79.2
70°	39.1	33.8	34.9	42.3	45.4
72.5°	13.7	23.2	21.1	21.1	14.8
75°	9.5	11.6	18.0	16.9	15.8
77.5°	12.7	11.6	8.5	7.4	14.8
80°	5.3	4.2	1.1	6.3	6.3
82.5°	5.3	2.1	6.3	8.5	5.3
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)