

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: P247207

Luminaire Tested: **LD8B90D010 ER8B90850 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90850 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 10448.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

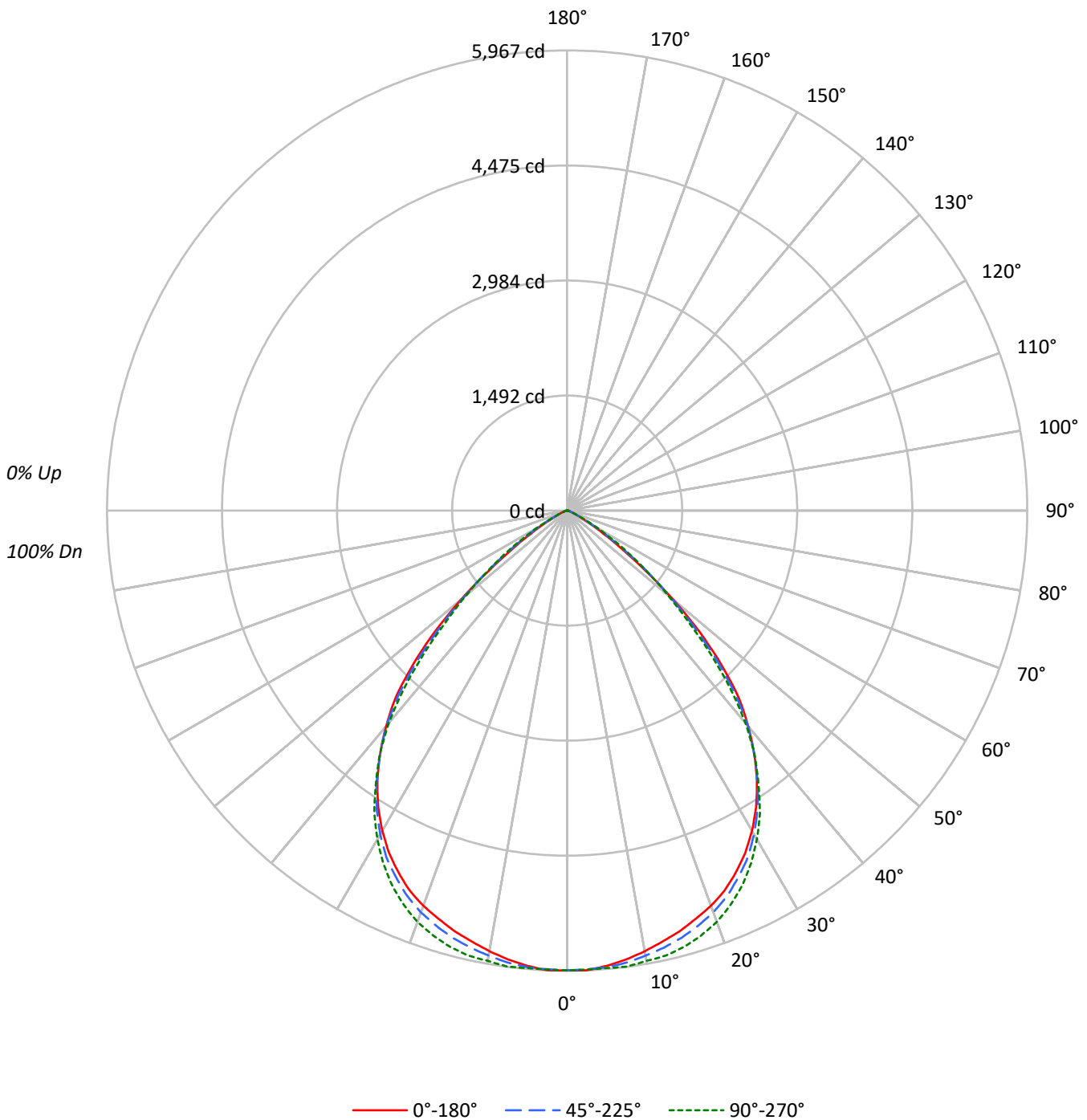
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	183862	183862	183862
5°	183397	183926	184316
10°	181660	183482	185624
15°	180221	183062	186995
20°	178962	181918	186299
25°	176160	178606	182567
30°	170706	172571	175213
35°	161445	162175	162777
40°	147056	146919	144942
45°	123641	119908	114736
50°	85876	83962	81717
55°	45945	50788	53794
60°	22233	25261	28499
65°	9741	9821	10237
70°	5247	4833	4733
75°	4623	4218	2990
80°	195	817	0
85°	389	389	2017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.8	5.4
10°-20°	1619.8	15.5
20°-30°	2416.9	23.1
30°-40°	2676.7	25.6
40°-50°	2087.4	20.0
50°-60°	874.9	8.4
60°-70°	175.3	1.7
70°-80°	27.9	0.3
80°-90°	4.4	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°	4601.5	44.0
0°-40°	7278.1	69.7
0°-60°	10240.5	98.0
0°-90°	10448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5962	5962	5962	5962	5962	
5°	5925	5929	5942	5958	5954	562
15°	5645	5670	5734	5819	5858	1593
25°	5178	5198	5249	5330	5366	2379
35°	4289	4282	4308	4329	4324	2666
45°	2835	2823	2750	2665	2631	2145
55°	855	888	945	982	1001	832
65°	134	134	135	145	140	161
75°	39	35	35	27	25	31
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5962.5	5962.5	5962.5	5962.5	5962.5
2.5°	5967.0	5955.6	5953.3	5960.2	5955.6
5°	5924.8	5929.4	5941.9	5957.9	5954.5
7.5°	5870.0	5878.0	5912.3	5953.3	5963.6
10°	5801.6	5818.7	5859.8	5906.5	5928.2
12.5°	5721.7	5744.5	5803.9	5871.2	5911.1
15°	5645.3	5670.4	5734.3	5818.7	5857.5
17.5°	5549.4	5582.5	5645.3	5736.6	5776.5
20°	5453.6	5483.3	5543.7	5632.7	5677.2
22.5°	5334.9	5356.6	5413.7	5489.0	5534.6
25°	5177.5	5198.0	5249.4	5330.4	5365.8
27.5°	5001.8	5025.8	5072.5	5128.4	5160.4
30°	4794.2	4813.5	4846.6	4896.8	4920.8
32.5°	4560.3	4561.4	4594.5	4632.1	4653.8
35°	4288.7	4281.9	4308.1	4328.7	4324.1
37.5°	3988.7	3989.8	3987.5	3989.8	3994.4
40°	3653.2	3637.3	3649.8	3621.3	3600.7
42.5°	3297.3	3281.3	3232.2	3169.5	3135.3
45°	2835.2	2822.6	2749.6	2665.2	2631.0
47.5°	2327.5	2288.7	2229.4	2157.5	2124.4
50°	1790.1	1785.5	1750.2	1733.1	1703.4
52.5°	1280.1	1280.1	1323.5	1316.6	1315.5
55°	854.6	887.6	944.7	982.3	1000.6
57.5°	556.8	587.6	635.5	675.4	693.7
60°	360.5	375.4	409.6	440.4	462.1
62.5°	223.6	236.2	254.4	273.8	281.8
65°	133.5	133.5	134.6	144.9	140.3
67.5°	90.1	93.6	89.0	89.0	100.4
70°	58.2	54.8	53.6	52.5	52.5
72.5°	37.7	31.9	34.2	36.5	31.9
75°	38.8	35.4	35.4	27.4	25.1
77.5°	13.7	14.8	10.3	8.0	6.8
80°	1.1	4.6	4.6	1.1	0.0
82.5°	13.7	12.6	10.3	16.0	10.3
85°	1.1	2.3	1.1	0.0	5.7
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)