

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: P247639

Luminaire Tested: **LD8B90D010 ER8B90850 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90850 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8871.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

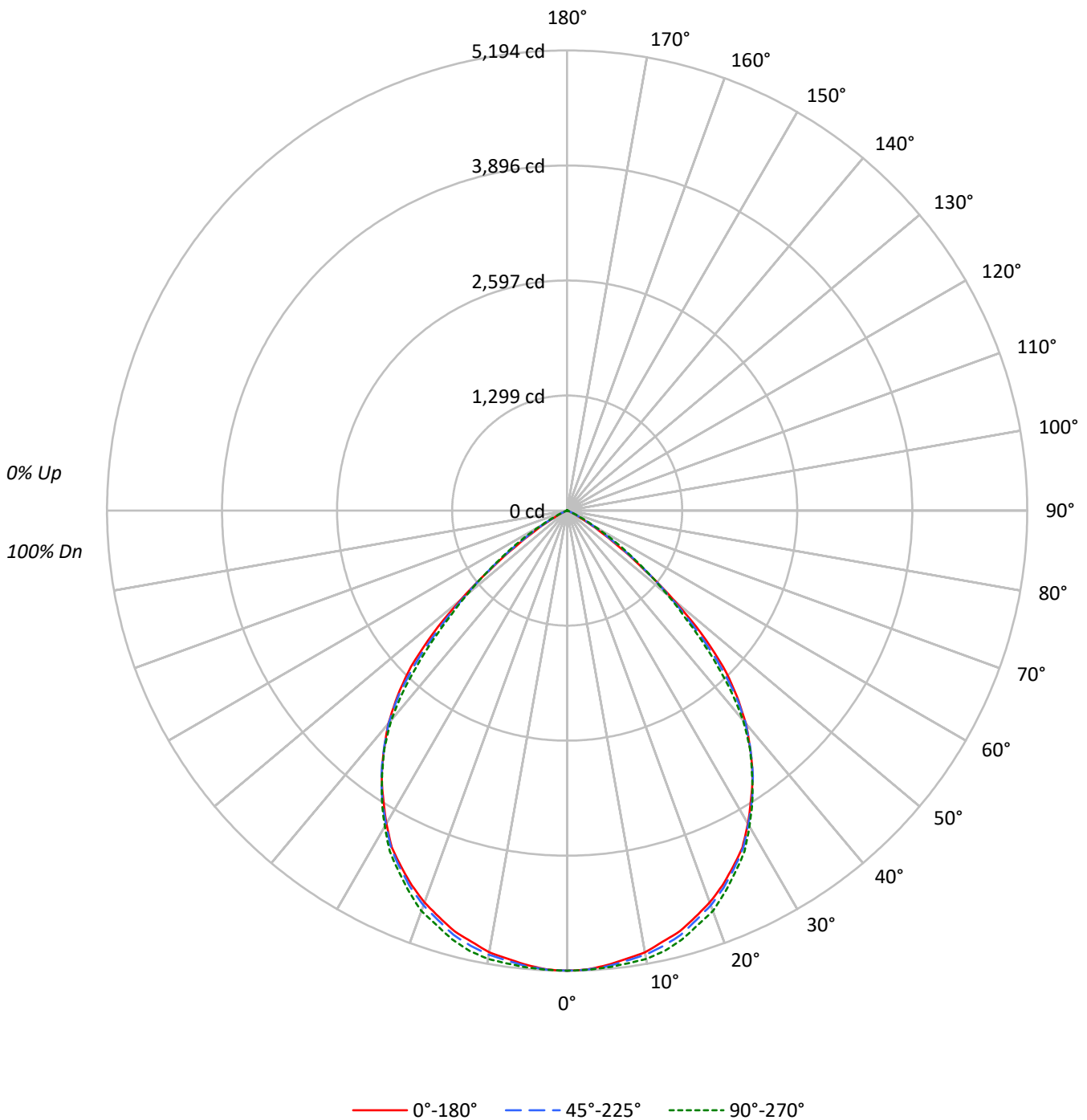
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	160167	160167	160167
5°	159438	159862	160249
10°	158530	159388	160887
15°	156932	158280	159991
20°	154426	155548	157832
25°	150836	151652	153010
30°	145261	145624	146561
35°	137382	137597	137036
40°	126240	126104	124357
45°	108556	104126	99350
50°	75471	72789	70765
55°	39375	42810	45326
60°	15973	18853	21881
65°	5078	6246	6662
70°	721	415	207
75°	0	0	0
80°	1829	408	604
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.5	5.5
10°-20°	1395.9	15.7
20°-30°	2050.6	23.1
30°-40°	2270.3	25.6
40°-50°	1809.3	20.4
50°-60°	741.4	8.4
60°-70°	109.2	1.2
70°-80°	1.6	0.0
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°	3937.0	44.4
0°-40°	6207.4	70.0
0°-60°	8758.1	98.7
0°-90°	8871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5194	5194	5194	5194	5194	
5°	5151	5160	5164	5172	5177	489
15°	4916	4919	4958	5005	5012	1383
25°	4433	4429	4457	4483	4497	2039
35°	3650	3645	3655	3651	3640	2268
45°	2489	2466	2388	2299	2278	1868
55°	732	758	796	842	843	705
65°	70	73	86	94	91	92
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5194.1	5194.1	5194.1	5194.1	5194.1
2.5°	5185.0	5186.1	5186.1	5180.4	5187.3
5°	5150.8	5159.9	5164.5	5172.5	5177.0
7.5°	5102.9	5100.6	5124.5	5153.1	5156.5
10°	5062.9	5058.4	5090.3	5128.0	5138.2
12.5°	4984.2	4989.9	5031.0	5069.8	5090.3
15°	4915.8	4919.2	4958.0	5004.8	5011.6
17.5°	4809.7	4819.9	4846.2	4895.2	4904.4
20°	4705.9	4710.4	4740.1	4780.0	4809.7
22.5°	4579.2	4587.2	4610.0	4645.4	4660.2
25°	4433.2	4428.6	4457.2	4483.4	4497.1
27.5°	4284.9	4276.9	4298.6	4323.7	4336.2
30°	4079.6	4077.3	4089.8	4105.8	4116.1
32.5°	3863.9	3869.6	3882.2	3886.8	3890.2
35°	3649.5	3644.9	3655.2	3650.6	3640.3
37.5°	3395.1	3398.5	3398.5	3393.9	3389.4
40°	3136.1	3139.5	3132.7	3107.6	3089.3
42.5°	2832.6	2834.9	2799.6	2743.7	2706.0
45°	2489.3	2466.4	2387.7	2298.7	2278.2
47.5°	2056.9	2018.1	1936.0	1868.7	1844.7
50°	1573.2	1544.7	1517.3	1481.9	1475.1
52.5°	1103.2	1118.0	1128.3	1139.7	1136.3
55°	732.4	757.5	796.3	841.9	843.1
57.5°	440.4	468.9	517.9	568.1	592.1
60°	259.0	270.4	305.7	343.4	354.8
62.5°	140.3	143.7	159.7	197.4	191.7
65°	69.6	73.0	85.6	93.5	91.3
67.5°	34.2	37.6	39.9	51.3	42.2
70°	8.0	2.3	4.6	5.7	2.3
72.5°	0.0	0.0	2.3	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	0.0	0.0	0.0	4.6
80°	10.3	6.8	2.3	2.3	3.4
82.5°	3.4	1.1	3.4	1.1	0.0
85°	0.0	0.0	0.0	4.6	0.0
87.5°	5.7	1.1	1.1	3.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)