

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: P247139

Luminaire Tested: **LD8B90D010 ER8B909730 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B909730 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7801.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

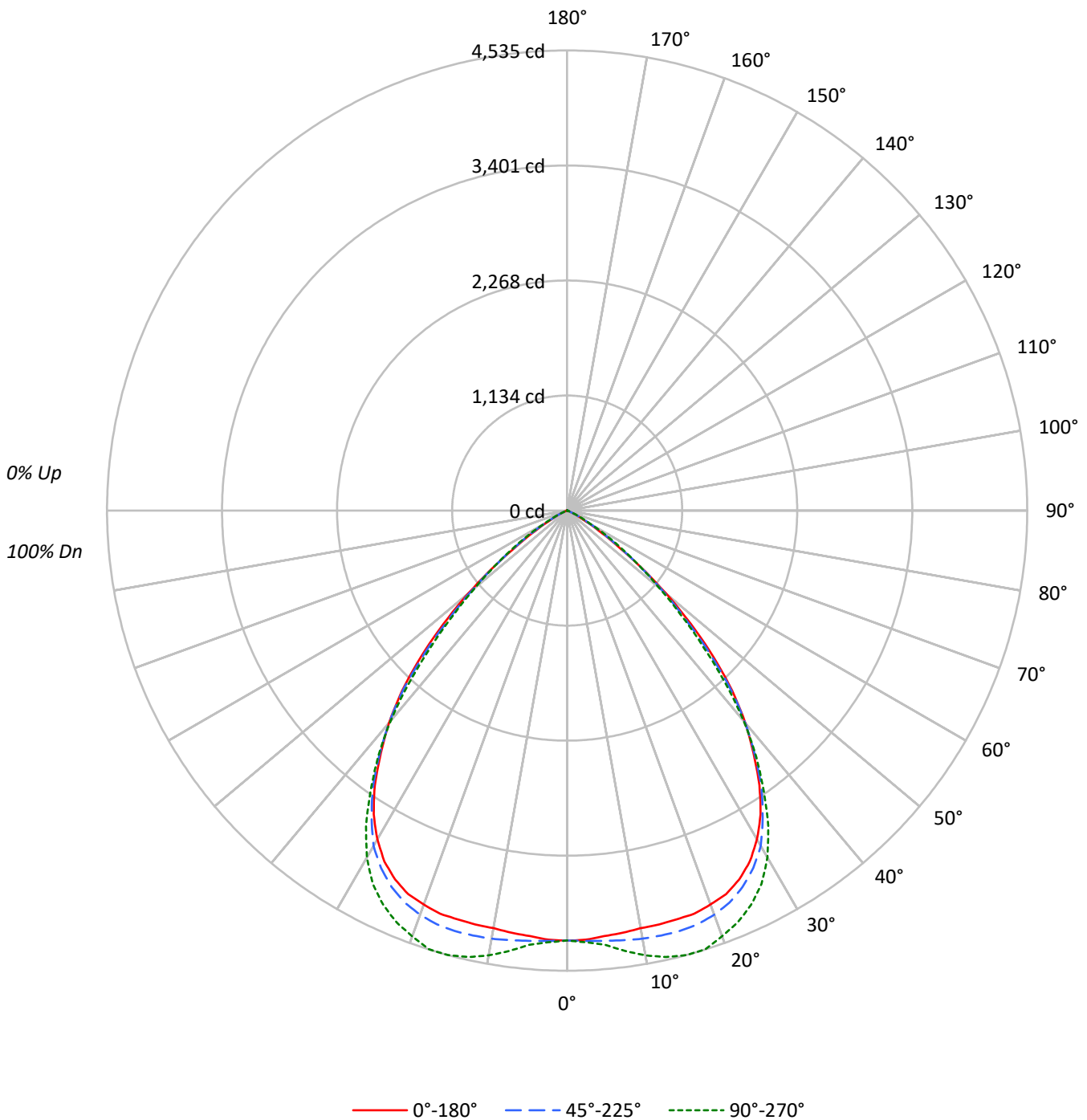
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	5.2
10°-20°	1220.8	15.6
20°-30°	1889.0	24.2
30°-40°	2069.1	26.5
40°-50°	1513.7	19.4
50°-60°	593.9	7.6
60°-70°	96.1	1.2
70°-80°	8.9	0.1
80°-90°	1.8	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°	3517.5	45.1
0°-40°	5586.6	71.6
0°-60°	7694.3	98.6
0°-90°	7801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4237	4237	4237	4237	4237	
5°	4210	4220	4256	4287	4296	401
15°	4169	4197	4290	4449	4535	1181
25°	4011	4023	4092	4216	4288	1839
35°	3304	3310	3338	3370	3378	2046
45°	2040	2036	1981	1921	1894	1553
55°	585	597	622	645	666	575
65°	70	68	74	81	87	85
75°	5	8	9	7	8	9
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°	4237.4	4237.4	4237.4	4237.4	4237.4
2.5°	4233.3	4235.8	4244.1	4252.4	4257.3
5°	4210.0	4220.0	4256.5	4287.2	4296.3
7.5°	4195.9	4212.5	4269.8	4346.9	4376.8
10°	4178.5	4202.6	4283.9	4393.4	4451.5
12.5°	4179.3	4202.6	4288.9	4431.6	4506.3
15°	4169.4	4196.8	4289.7	4449.0	4535.3
17.5°	4166.9	4180.2	4274.8	4436.6	4532.0
20°	4131.2	4149.5	4238.2	4381.8	4463.9
22.5°	4092.2	4100.5	4181.8	4322.9	4392.6
25°	4010.9	4023.3	4092.2	4215.8	4288.0
27.5°	3898.9	3901.4	3971.1	4085.6	4148.6
30°	3742.1	3754.5	3816.7	3901.4	3946.2
32.5°	3547.9	3546.3	3586.9	3660.8	3689.8
35°	3304.0	3309.8	3338.0	3369.5	3377.8
37.5°	3017.7	3025.2	3044.3	3055.1	3062.5
40°	2732.3	2732.3	2729.8	2718.2	2709.1
42.5°	2407.0	2396.3	2383.8	2332.4	2310.0
45°	2039.5	2036.2	1981.4	1920.8	1894.3
47.5°	1652.8	1634.6	1577.3	1528.4	1517.6
50°	1273.6	1254.5	1224.7	1200.6	1184.9
52.5°	907.7	893.6	906.1	906.1	904.4
55°	585.0	597.4	622.3	644.7	666.3
57.5°	370.9	387.5	425.7	454.7	462.2
60°	212.4	224.9	251.4	277.1	282.1
62.5°	133.6	134.4	151.8	166.8	175.9
65°	69.7	68.0	73.8	81.3	87.1
67.5°	29.0	29.0	34.8	34.0	43.1
70°	14.9	12.4	14.1	16.6	19.1
72.5°	10.8	8.3	11.6	14.9	6.6
75°	5.0	7.5	9.1	6.6	8.3
77.5°	6.6	6.6	5.0	8.3	1.7
80°	5.0	3.3	5.8	2.5	0.0
82.5°	0.8	1.7	0.8	0.8	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.5	4.1	3.3	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)