

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: P247136

Luminaire Tested: **LD8B100D010 ER8B1009727 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247136
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: LD8B100D010 ER8B1009727 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8507.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

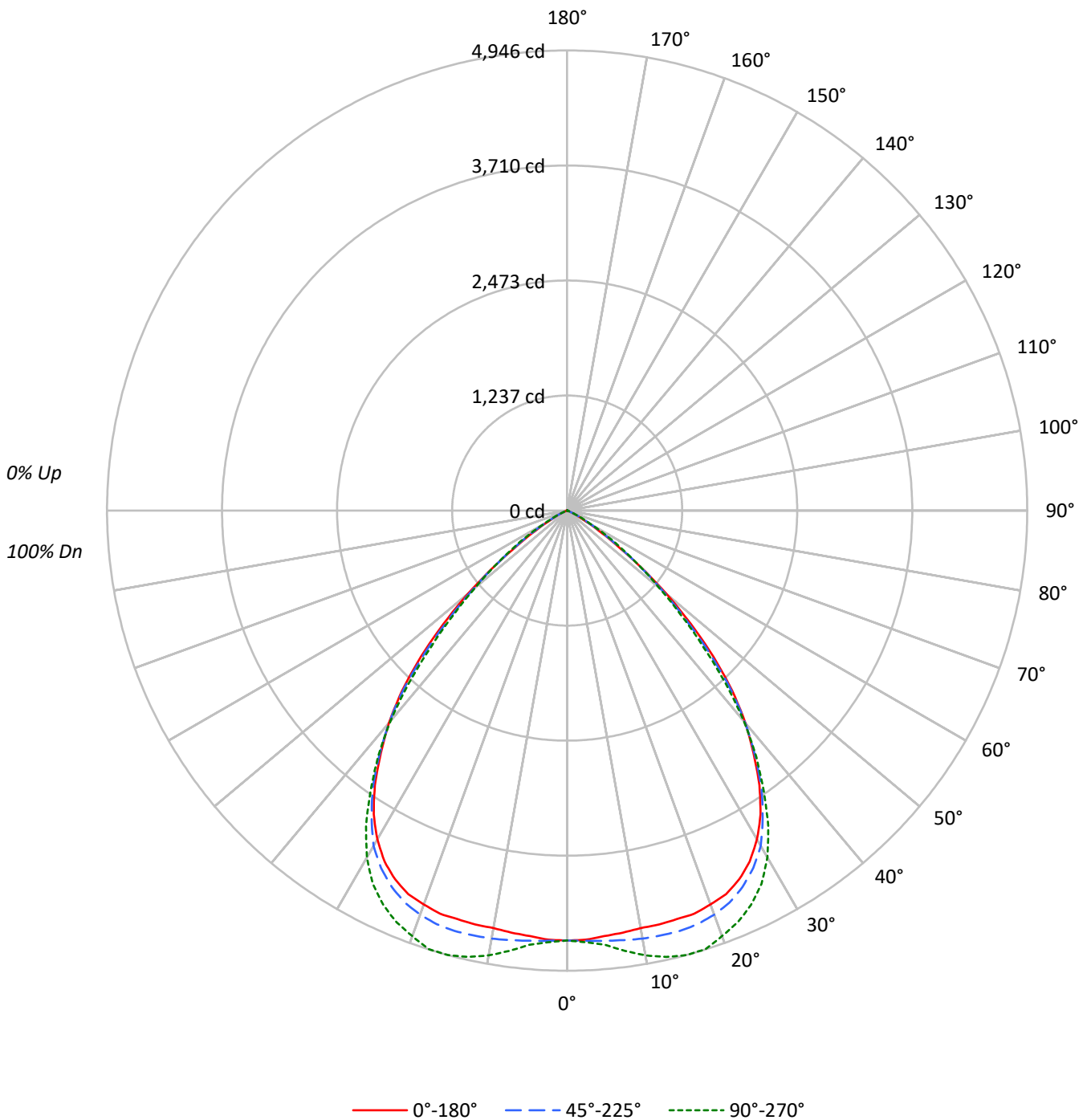
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82	82	82	82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	53	53	53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44	44	44	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	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°	444.6	5.2
10°-20°	1331.3	15.6
20°-30°	2060.0	24.2
30°-40°	2256.3	26.5
40°-50°	1650.7	19.4
50°-60°	647.7	7.6
60°-70°	104.8	1.2
70°-80°	9.6	0.1
80°-90°	1.9	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°	3835.9	45.1
0°-40°	6092.2	71.6
0°-60°	8390.6	98.6
0°-90°	8507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4621	4621	4621	4621	4621	
5°	4591	4602	4642	4675	4685	437
15°	4547	4577	4678	4852	4946	1288
25°	4374	4388	4463	4597	4676	2006
35°	3603	3609	3640	3674	3684	2231
45°	2224	2220	2161	2095	2066	1694
55°	638	652	679	703	727	628
65°	76	74	80	89	95	92
75°	5	8	10	7	9	9
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4620.9	4620.9	4620.9	4620.9	4620.9
2.5°	4616.4	4619.1	4628.1	4637.2	4642.6
5°	4591.1	4601.9	4641.7	4675.2	4685.2
7.5°	4575.7	4593.8	4656.2	4740.3	4772.9
10°	4556.7	4582.9	4671.6	4791.0	4854.4
12.5°	4557.6	4582.9	4677.0	4832.6	4914.1
15°	4546.7	4576.6	4677.9	4851.6	4945.7
17.5°	4544.0	4558.5	4661.6	4838.1	4942.1
20°	4505.1	4525.0	4621.8	4778.3	4867.9
22.5°	4462.6	4471.6	4560.3	4714.1	4790.1
25°	4373.9	4387.5	4462.6	4597.4	4676.1
27.5°	4251.7	4254.5	4330.5	4455.3	4524.1
30°	4080.7	4094.3	4162.2	4254.5	4303.3
32.5°	3869.0	3867.2	3911.5	3992.1	4023.7
35°	3603.0	3609.3	3640.1	3674.5	3683.5
37.5°	3290.8	3299.0	3319.8	3331.5	3339.7
40°	2979.6	2979.6	2976.9	2964.2	2954.2
42.5°	2624.9	2613.1	2599.5	2543.4	2519.0
45°	2224.0	2220.4	2160.7	2094.7	2065.7
47.5°	1802.4	1782.5	1720.1	1666.7	1654.9
50°	1388.9	1368.1	1335.5	1309.3	1292.1
52.5°	989.9	974.5	988.1	988.1	986.3
55°	637.9	651.5	678.6	703.0	726.6
57.5°	404.5	422.6	464.2	495.8	504.0
60°	231.6	245.2	274.2	302.2	307.6
62.5°	145.7	146.6	165.6	181.9	191.8
65°	76.0	74.2	80.5	88.7	95.0
67.5°	31.7	31.7	38.0	37.1	47.1
70°	16.3	13.6	15.4	18.1	20.8
72.5°	11.8	9.0	12.7	16.3	7.2
75°	5.4	8.1	10.0	7.2	9.0
77.5°	7.2	7.2	5.4	9.0	1.8
80°	5.4	3.6	6.3	2.7	0.0
82.5°	0.9	1.8	0.9	0.9	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.7	4.5	3.6	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)