

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: P247472

Luminaire Tested: **LD8B100D010 ER8B100927 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100927 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9499.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

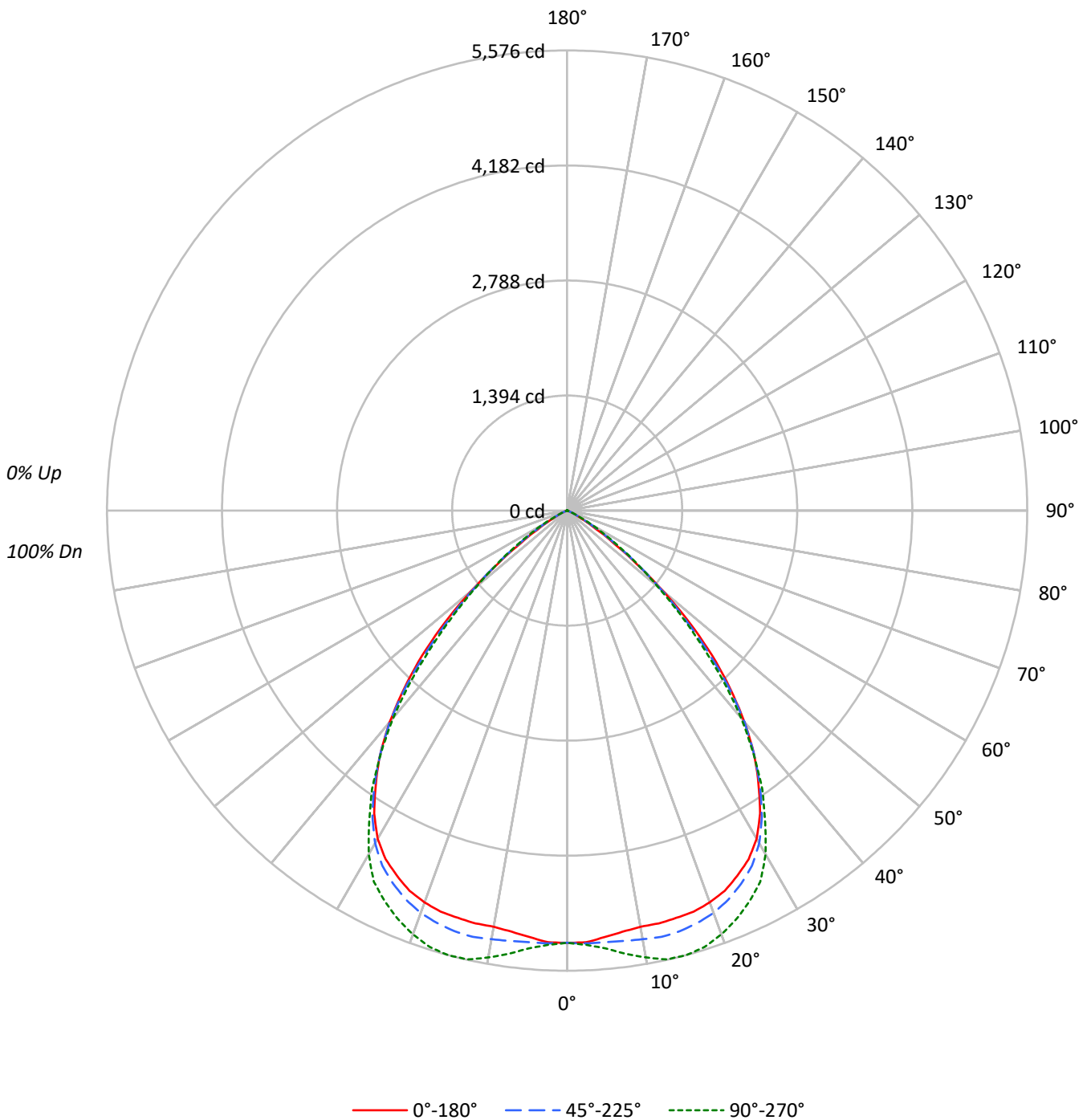
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	502.9	5.3
10°-20°	1498.8	15.8
20°-30°	2306.4	24.3
30°-40°	2526.1	26.6
40°-50°	1836.8	19.3
50°-60°	706.6	7.4
60°-70°	110.7	1.2
70°-80°	7.9	0.1
80°-90°	3.2	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°	4308.2	45.4
0°-40°	6834.3	71.9
0°-60°	9377.7	98.7
0°-90°	9499.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9499.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5237	5237	5237	5237	5237	
5°	5189	5215	5251	5301	5324	493
15°	5110	5150	5277	5473	5576	1446
25°	4881	4911	4989	5137	5225	2245
35°	4043	4043	4070	4095	4121	2511
45°	2485	2459	2392	2331	2300	1889
55°	687	706	746	771	792	671
65°	77	80	82	94	97	95
75°	6	13	10	13	13	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5237.4	5237.4	5237.4	5237.4	5237.4
2.5°	5236.4	5244.5	5249.6	5260.8	5265.9
5°	5188.6	5215.0	5250.7	5300.6	5324.0
7.5°	5146.9	5183.4	5259.8	5367.7	5415.5
10°	5120.3	5160.0	5274.1	5420.7	5498.0
12.5°	5123.4	5167.2	5290.3	5466.5	5570.3
15°	5110.2	5149.9	5277.2	5472.6	5576.4
17.5°	5094.9	5127.5	5240.5	5431.8	5543.9
20°	5052.2	5079.6	5187.6	5360.6	5464.5
22.5°	4988.0	5013.4	5103.1	5263.9	5359.6
25°	4881.2	4910.6	4989.0	5136.6	5225.2
27.5°	4762.0	4779.3	4851.7	4986.0	5070.5
30°	4593.0	4599.1	4653.1	4757.0	4807.8
32.5°	4351.8	4350.8	4391.6	4443.4	4462.8
35°	4043.4	4043.4	4069.8	4095.2	4120.8
37.5°	3722.7	3718.6	3721.7	3727.8	3706.4
40°	3341.9	3333.8	3337.9	3301.3	3277.8
42.5°	2924.7	2931.8	2891.0	2825.9	2801.5
45°	2484.9	2459.4	2392.2	2331.1	2299.6
47.5°	2017.6	1977.9	1913.7	1850.6	1845.6
50°	1516.7	1518.8	1477.0	1441.5	1427.2
52.5°	1052.6	1063.8	1085.2	1089.2	1094.3
55°	687.2	705.5	746.2	770.6	792.0
57.5°	420.4	454.0	488.6	534.5	538.5
60°	245.4	261.6	300.3	334.9	350.2
62.5°	138.5	153.7	161.9	182.2	187.3
65°	77.4	80.4	82.5	93.6	96.8
67.5°	46.8	48.8	50.8	49.8	51.9
70°	4.0	9.1	4.0	5.1	3.0
72.5°	17.3	11.2	12.3	9.1	6.1
75°	6.1	13.3	10.1	13.3	13.3
77.5°	4.0	3.0	5.1	6.1	5.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	9.1	8.1	5.1	8.1	3.0
85°	2.0	0.0	0.0	0.0	2.0
87.5°	6.1	3.0	3.0	7.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)