

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: P247572

Luminaire Tested: **LD8B100D010 ER8B100930 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100930 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8969.1 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

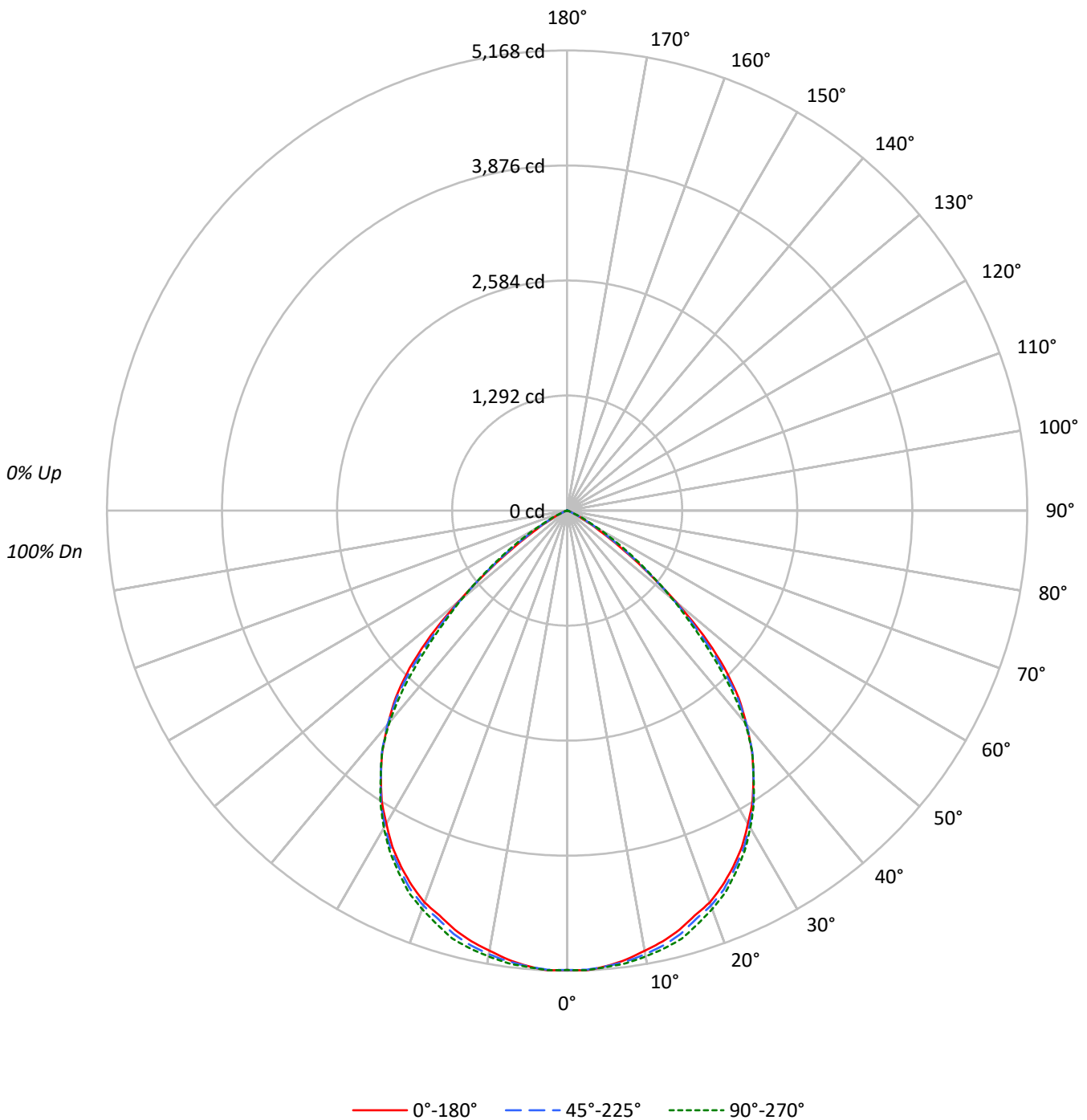
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65				
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58				
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53				
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48				
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36				

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°	488.1	5.4
10°-20°	1386.1	15.5
20°-30°	2044.1	22.8
30°-40°	2275.2	25.4
40°-50°	1831.1	20.4
50°-60°	778.6	8.7
60°-70°	146.0	1.6
70°-80°	17.7	0.2
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°	3918.3	43.7
0°-40°	6193.5	69.1
0°-60°	8803.2	98.2
0°-90°	8969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8969.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5160	5160	5160	5160	5160	
5°	5134	5135	5136	5145	5144	486
15°	4873	4900	4924	4961	4977	1373
25°	4413	4429	4445	4471	4482	2028
35°	3646	3647	3649	3650	3650	2270
45°	2502	2481	2414	2340	2306	1881
55°	773	790	837	870	892	736
65°	97	107	121	130	145	125
75°	10	12	18	17	16	16
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°	5159.7	5159.7	5159.7	5159.7	5159.7
2.5°	5168.4	5171.5	5160.9	5163.0	5166.1
5°	5134.0	5135.1	5136.1	5144.7	5143.6
7.5°	5085.6	5093.3	5106.0	5122.2	5126.4
10°	5020.3	5039.6	5058.8	5078.1	5084.6
12.5°	4955.8	4967.6	5002.0	5021.3	5037.4
15°	4873.2	4900.0	4923.7	4961.2	4977.4
17.5°	4768.1	4787.3	4809.9	4847.4	4870.0
20°	4683.3	4688.6	4720.9	4754.0	4761.6
22.5°	4557.6	4569.5	4602.8	4625.4	4644.6
25°	4412.8	4429.0	4445.0	4470.8	4481.5
27.5°	4254.0	4263.6	4286.1	4304.4	4314.1
30°	4061.9	4083.4	4093.0	4101.6	4114.5
32.5°	3875.2	3881.6	3890.2	3895.6	3902.0
35°	3645.5	3646.6	3648.7	3649.9	3649.9
37.5°	3410.5	3418.0	3415.9	3409.4	3412.7
40°	3132.5	3145.4	3137.9	3118.6	3105.7
42.5°	2852.5	2846.0	2820.2	2762.3	2735.5
45°	2501.5	2481.1	2413.5	2340.5	2306.2
47.5°	2080.8	2035.7	1978.9	1922.1	1899.5
50°	1594.7	1588.2	1562.6	1540.0	1542.2
52.5°	1142.9	1159.0	1164.4	1185.8	1196.6
55°	772.7	789.9	837.1	870.3	891.8
57.5°	470.0	503.3	553.8	608.5	636.4
60°	297.3	316.6	362.8	398.2	411.1
62.5°	185.6	186.8	209.3	237.2	249.0
65°	96.6	107.3	121.3	129.8	144.8
67.5°	60.1	60.1	59.1	71.9	80.5
70°	39.7	34.3	35.4	42.9	46.2
72.5°	13.9	23.7	21.4	21.4	15.0
75°	9.6	11.8	18.3	17.2	16.1
77.5°	12.9	11.8	8.6	7.5	15.0
80°	5.4	4.3	1.1	6.4	6.4
82.5°	5.4	2.1	6.4	8.6	5.4
85°	0.0	0.0	0.0	0.0	0.0
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)