

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: P247568

Luminaire Tested: **LD8B100D010 ER8B100927 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247568
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 ER8B100927 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8507.3 lumens
Efficiency: N/A
Efficacy: 80.0 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

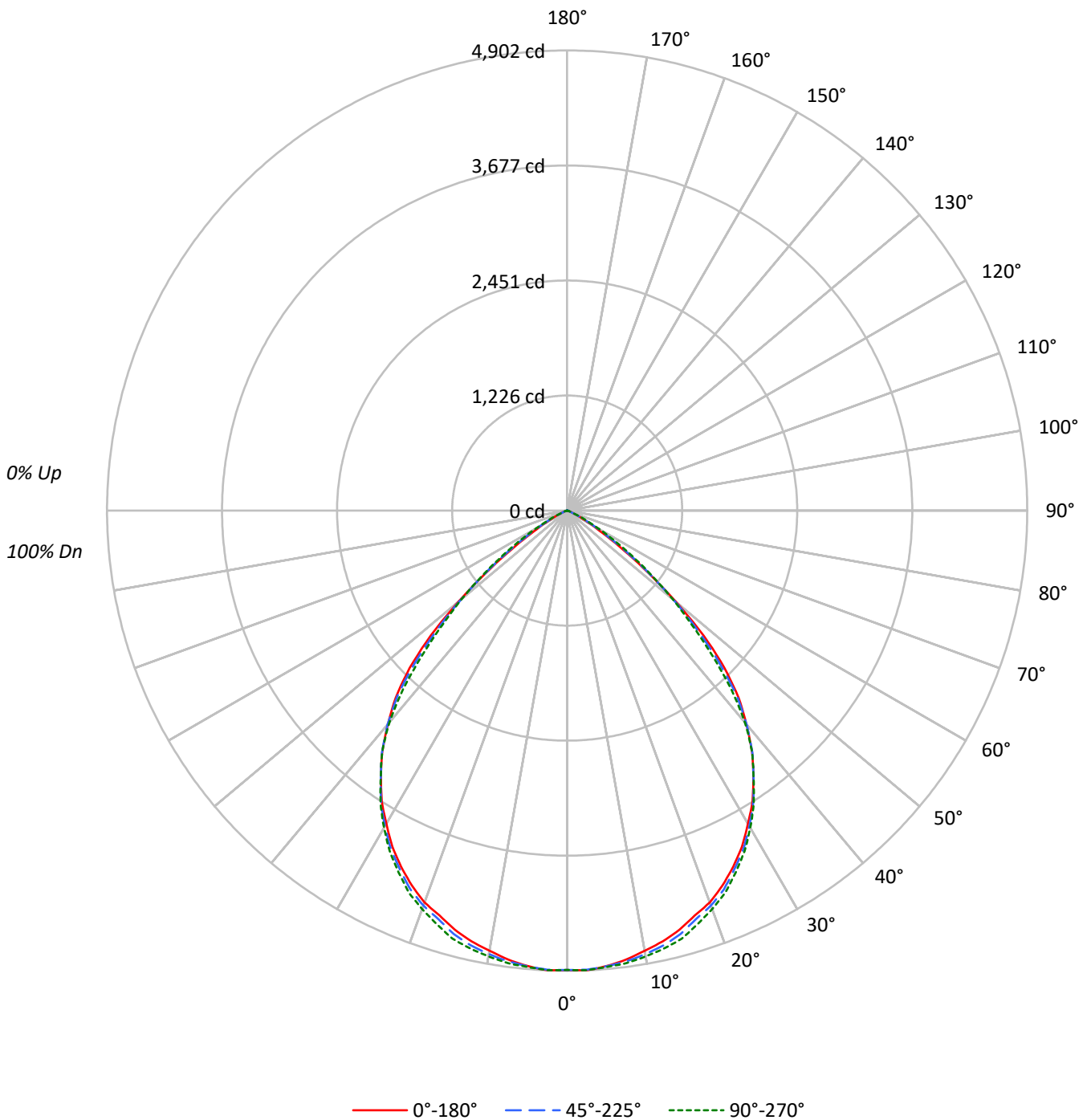
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	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°	462.9	5.4
10°-20°	1314.7	15.5
20°-30°	1938.9	22.8
30°-40°	2158.0	25.4
40°-50°	1736.8	20.4
50°-60°	738.5	8.7
60°-70°	138.5	1.6
70°-80°	16.8	0.2
80°-90°	2.1	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°	3716.5	43.7
0°-40°	5874.6	69.1
0°-60°	8349.9	98.2
0°-90°	8507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8507.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4894	4894	4894	4894	4894	
5°	4870	4871	4872	4880	4879	461
15°	4622	4648	4670	4706	4721	1302
25°	4186	4201	4216	4241	4251	1924
35°	3458	3459	3461	3462	3462	2153
45°	2373	2353	2289	2220	2188	1784
55°	733	749	794	826	846	698
65°	92	102	115	123	137	119
75°	9	11	17	16	15	15
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°	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	4902.2	4905.2	4895.1	4897.1	4900.2
5°	4869.6	4870.6	4871.7	4879.8	4878.8
7.5°	4823.8	4831.0	4843.1	4858.4	4862.5
10°	4761.7	4780.0	4798.3	4816.7	4822.8
12.5°	4700.6	4711.8	4744.5	4762.7	4778.0
15°	4622.3	4647.7	4670.1	4705.8	4721.0
17.5°	4522.5	4540.8	4562.2	4597.9	4619.2
20°	4442.1	4447.2	4477.7	4509.2	4516.4
22.5°	4323.0	4334.2	4365.8	4387.2	4405.5
25°	4185.6	4200.9	4216.2	4240.6	4250.7
27.5°	4034.9	4044.2	4065.5	4082.7	4092.0
30°	3852.8	3873.0	3882.3	3890.4	3902.6
32.5°	3675.6	3681.7	3689.9	3695.0	3701.0
35°	3457.8	3458.8	3460.8	3461.8	3461.8
37.5°	3234.8	3242.0	3240.0	3233.8	3236.8
40°	2971.2	2983.5	2976.3	2958.0	2945.8
42.5°	2705.5	2699.4	2675.0	2620.0	2594.6
45°	2372.7	2353.4	2289.3	2220.1	2187.5
47.5°	1973.7	1931.0	1877.0	1823.1	1801.7
50°	1512.6	1506.5	1482.1	1460.7	1462.7
52.5°	1084.0	1099.4	1104.4	1124.8	1134.9
55°	732.9	749.1	793.9	825.5	845.9
57.5°	445.8	477.3	525.3	577.1	603.6
60°	281.9	300.3	344.0	377.7	389.8
62.5°	176.1	177.1	198.5	225.0	236.1
65°	91.6	101.8	115.0	123.2	137.4
67.5°	57.0	57.0	56.0	68.2	76.4
70°	37.7	32.6	33.6	40.7	43.8
72.5°	13.3	22.4	20.4	20.4	14.3
75°	9.1	11.2	17.3	16.3	15.3
77.5°	12.3	11.2	8.1	7.1	14.3
80°	5.1	4.0	1.0	6.1	6.1
82.5°	5.1	2.0	6.1	8.1	5.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)