

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: P247344

Luminaire Tested: **LD8B100D010 ER8B100835 8LBSOWMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100835 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11651.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

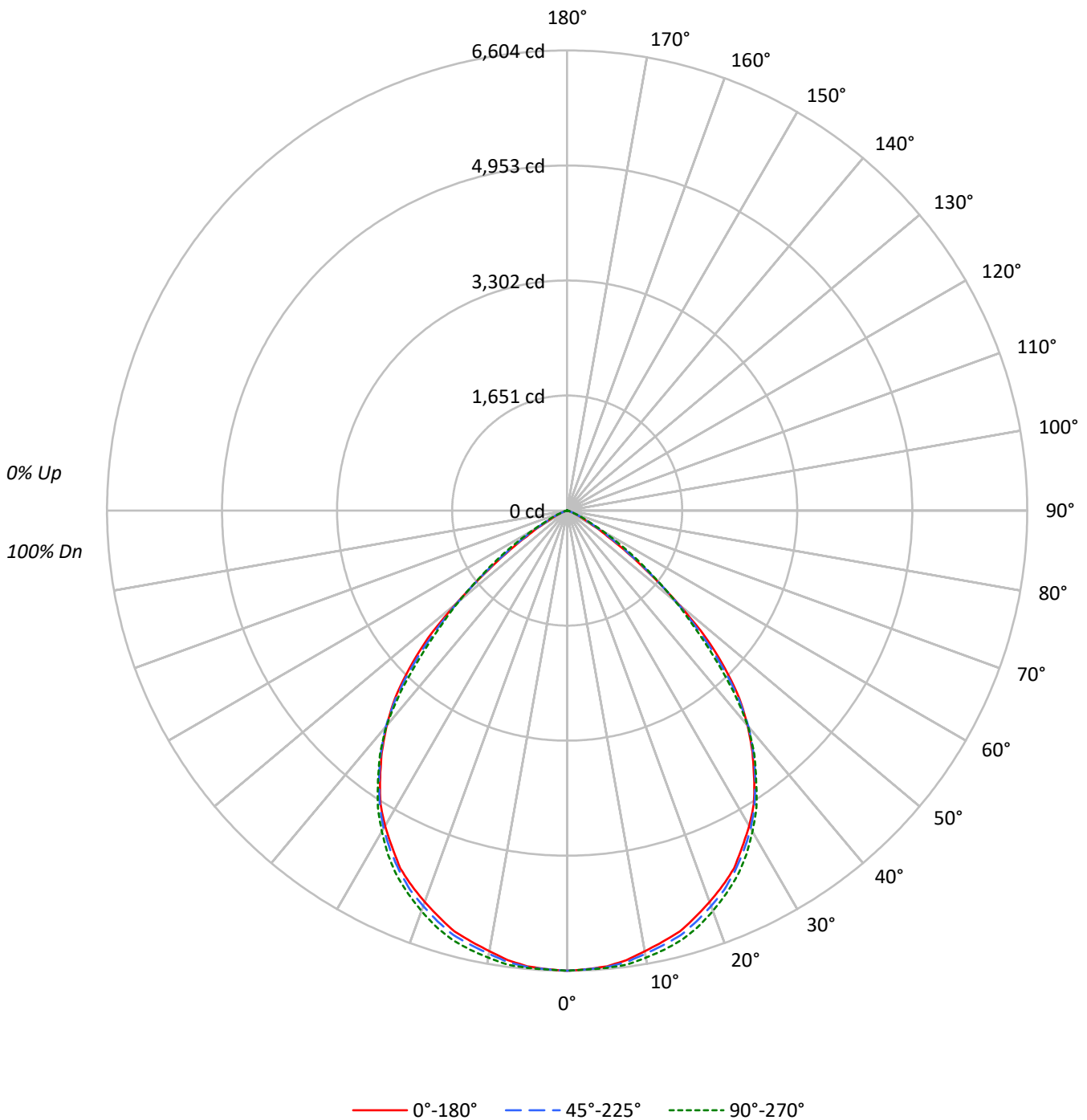
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	203643	203643	203643
5°	203214	203536	203898
10°	201045	202226	204017
15°	199625	201368	203526
20°	196157	198205	200636
25°	192770	194009	196707
30°	186098	187580	189339
35°	176103	177180	178110
40°	162159	162944	162525
45°	139802	136122	130679
50°	99807	98311	97126
55°	57288	60707	65740
60°	27167	31817	36788
65°	12798	15454	17730
70°	5978	6681	7618
75°	2788	4027	4647
80°	2309	2078	3232
85°	920	2300	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.0	5.4
10°-20°	1775.6	15.2
20°-30°	2623.2	22.5
30°-40°	2931.2	25.2
40°-50°	2366.4	20.3
50°-60°	1052.6	9.0
60°-70°	237.1	2.0
70°-80°	36.6	0.3
80°-90°	4.3	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°	5022.7	43.1
0°-40°	7953.9	68.3
0°-60°	11372.9	97.6
0°-90°	11651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6604	6604	6604	6604	6604	
5°	6565	6564	6575	6577	6587	622
15°	6253	6257	6308	6354	6375	1759
25°	5666	5666	5702	5749	5781	2597
35°	4678	4676	4707	4712	4731	2916
45°	3206	3181	3121	3011	2997	2424
55°	1066	1081	1129	1188	1223	1002
65°	175	198	212	230	243	204
75°	23	32	34	32	39	30
85°	3	4	6	14	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6604.0	6604.0	6604.0	6604.0	6604.0
2.5°	6587.1	6583.2	6589.7	6585.8	6592.3
5°	6565.0	6563.7	6575.4	6576.7	6587.1
7.5°	6507.8	6509.1	6533.8	6552.0	6572.8
10°	6420.7	6425.9	6458.4	6498.7	6515.6
12.5°	6337.6	6344.1	6385.7	6441.5	6454.5
15°	6253.1	6257.0	6307.7	6354.5	6375.3
17.5°	6115.4	6141.3	6180.3	6233.6	6260.9
20°	5977.6	5995.8	6040.0	6098.5	6114.1
22.5°	5826.9	5846.4	5890.5	5938.6	5955.5
25°	5665.7	5665.7	5702.1	5748.9	5781.4
27.5°	5440.9	5468.2	5494.2	5535.8	5568.3
30°	5226.5	5236.9	5268.1	5301.9	5317.5
32.5°	4988.7	4990.0	5004.3	5042.0	5056.3
35°	4678.1	4675.5	4706.7	4711.9	4731.4
37.5°	4367.6	4380.6	4392.2	4410.4	4411.7
40°	4028.4	4034.9	4047.9	4028.4	4037.5
42.5°	3659.3	3650.2	3625.6	3567.1	3542.4
45°	3205.8	3181.1	3121.4	3010.9	2996.6
47.5°	2705.5	2644.4	2571.7	2489.8	2474.2
50°	2080.5	2085.7	2049.3	2022.0	2024.6
52.5°	1516.5	1534.7	1543.8	1569.8	1584.1
55°	1065.6	1081.2	1129.2	1187.7	1222.8
57.5°	690.0	719.9	782.3	848.6	873.3
60°	440.5	460.0	515.9	564.0	596.5
62.5°	288.5	295.0	326.2	370.4	371.7
65°	175.4	197.5	211.8	230.0	243.0
67.5°	114.4	114.4	127.3	144.2	148.1
70°	66.3	67.6	74.1	80.6	84.5
72.5°	36.4	40.3	44.2	50.7	57.2
75°	23.4	32.5	33.8	32.5	39.0
77.5°	15.6	15.6	13.0	22.1	23.4
80°	13.0	9.1	11.7	16.9	18.2
82.5°	0.0	1.3	1.3	2.6	0.0
85°	2.6	3.9	6.5	14.3	3.9
87.5°	0.0	3.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)