

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: P247954

Luminaire Tested: **LD8B200D010 ER8B200835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23460.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

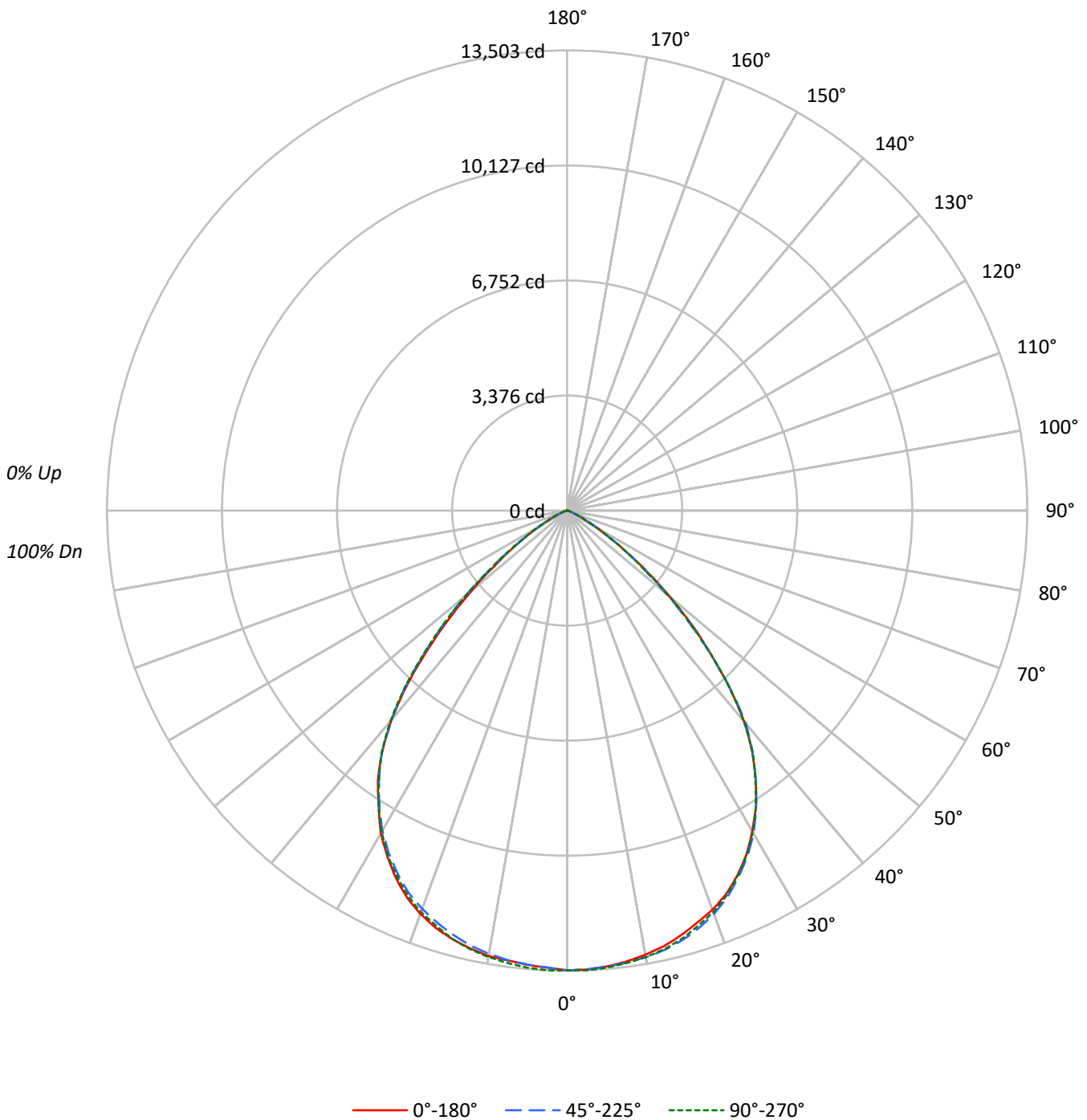
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	415970	415970	415970
5°	415664	416652	414138
10°	414217	416509	415592
15°	411990	415304	415604
20°	408994	411396	413230
25°	402053	402505	404768
30°	386824	387675	389431
35°	363169	362517	364622
40°	325614	324757	322450
45°	260067	260006	253452
50°	187957	186173	175446
55°	115195	114335	109114
60°	59175	61475	60575
65°	28843	30003	30492
70°	12361	12721	12117
75°	9674	9674	8400
80°	5203	4724	4262
85°	4246	2830	6121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.2	5.4
10°-20°	3663.4	15.6
20°-30°	5442.4	23.2
30°-40°	5997.8	25.6
40°-50°	4568.3	19.5
50°-60°	1969.3	8.4
60°-70°	452.4	1.9
70°-80°	75.2	0.3
80°-90°	14.1	0.1
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°	10383.0	44.3
0°-40°	16380.8	69.8
0°-60°	22918.3	97.7
0°-90°	23460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23460.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13490	13490	13490	13490	13490	
5°	13428	13427	13460	13370	13379	###
15°	12905	13049	13009	12893	13018	3640
25°	11817	11883	11830	11761	11896	5423
35°	9647	9653	9630	9622	9686	5990
45°	5964	5952	5962	5930	5812	4600
55°	2143	2141	2127	2140	2030	1998
65°	395	434	411	409	418	442
75°	81	81	81	82	70	75
85°	12	8	8	24	17	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13489.6	13489.6	13489.6	13489.6	13489.6	13489.6	13489.6	13489.6	13489.6
2.5°	13474.9	13476.3	13466.9	13486.9	13502.9	13451.0	13420.4	13489.6	13423.0
5°	13428.4	13437.7	13427.0	13452.3	13460.3	13417.7	13369.8	13444.3	13379.1
7.5°	13348.5	13367.1	13383.1	13412.4	13391.1	13337.9	13305.9	13393.8	13313.9
10°	13228.7	13275.3	13309.9	13353.8	13301.9	13244.7	13206.1	13325.9	13272.6
12.5°	13094.3	13147.5	13206.1	13259.3	13180.8	13097.0	13077.0	13204.8	13156.9
15°	12905.3	12954.6	13049.1	13099.6	13009.1	12913.3	12893.4	13055.7	13018.5
17.5°	12683.1	12769.6	12849.4	12889.4	12774.9	12692.4	12681.7	12849.4	12834.8
20°	12463.5	12510.1	12592.6	12645.8	12536.7	12438.2	12434.2	12607.2	12592.6
22.5°	12185.3	12226.6	12281.2	12330.4	12227.9	12145.4	12150.7	12293.1	12290.5
25°	11816.7	11844.6	11883.2	11937.8	11830.0	11771.4	11760.8	11912.5	11896.5
27.5°	11386.8	11405.5	11449.4	11495.9	11402.8	11350.9	11332.3	11484.0	11430.7
30°	10863.8	10906.4	10937.0	10957.0	10887.7	10855.8	10842.5	10962.3	10937.0
32.5°	10308.8	10323.5	10324.8	10374.0	10300.8	10255.6	10255.6	10351.4	10294.2
35°	9647.4	9644.7	9652.7	9705.9	9630.1	9646.1	9622.1	9698.0	9686.0
37.5°	8922.1	8934.0	8936.7	8979.3	8936.7	8947.4	8938.0	8950.0	8911.4
40°	8089.0	8140.9	8158.2	8150.2	8067.7	8039.7	8015.8	8059.7	8010.4
42.5°	7054.9	7078.8	7081.5	7086.8	7064.2	7060.2	7030.9	7049.6	6972.4
45°	5963.6	5974.2	5951.6	5947.6	5962.2	5984.9	5930.3	5887.7	5811.9
47.5°	4966.8	4929.5	4827.0	4864.3	4880.3	4937.5	4878.9	4764.5	4701.9
50°	3918.0	3879.5	3800.9	3818.2	3880.8	3967.3	3899.4	3741.0	3657.2
52.5°	2993.1	2949.2	2861.3	2877.3	2895.9	2961.2	2925.2	2817.4	2736.2
55°	2142.7	2112.1	2141.4	2117.4	2126.7	2189.3	2140.0	2050.9	2029.6
57.5°	1448.0	1465.3	1489.2	1493.2	1474.6	1456.0	1449.3	1414.7	1433.3
60°	959.5	972.9	1012.8	1024.8	996.8	956.9	964.9	964.9	982.2
62.5°	620.2	632.2	678.7	686.7	646.8	636.2	636.2	632.2	664.1
65°	395.3	419.2	433.9	412.6	411.2	396.6	408.6	408.6	417.9
67.5°	236.9	215.6	230.2	239.6	230.2	218.3	215.6	216.9	230.2
70°	137.1	131.8	141.1	135.7	141.1	122.4	137.1	130.4	134.4
72.5°	87.8	86.5	86.5	91.8	86.5	83.8	89.2	77.2	85.2
75°	81.2	81.2	81.2	70.5	81.2	78.5	82.5	62.6	70.5
77.5°	31.9	37.3	45.2	43.9	43.9	41.3	37.3	31.9	49.2
80°	29.3	26.6	35.9	42.6	26.6	31.9	35.9	22.6	24.0
82.5°	14.6	13.3	17.3	17.3	17.3	9.3	24.0	14.6	12.0
85°	12.0	5.3	8.0	8.0	8.0	10.6	24.0	6.7	17.3
87.5°	2.7	4.0	6.7	6.7	8.0	13.3	24.0	5.3	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)