

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: P248134

Luminaire Tested: **LD8B200D010 ER8B200835 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200835 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24048.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

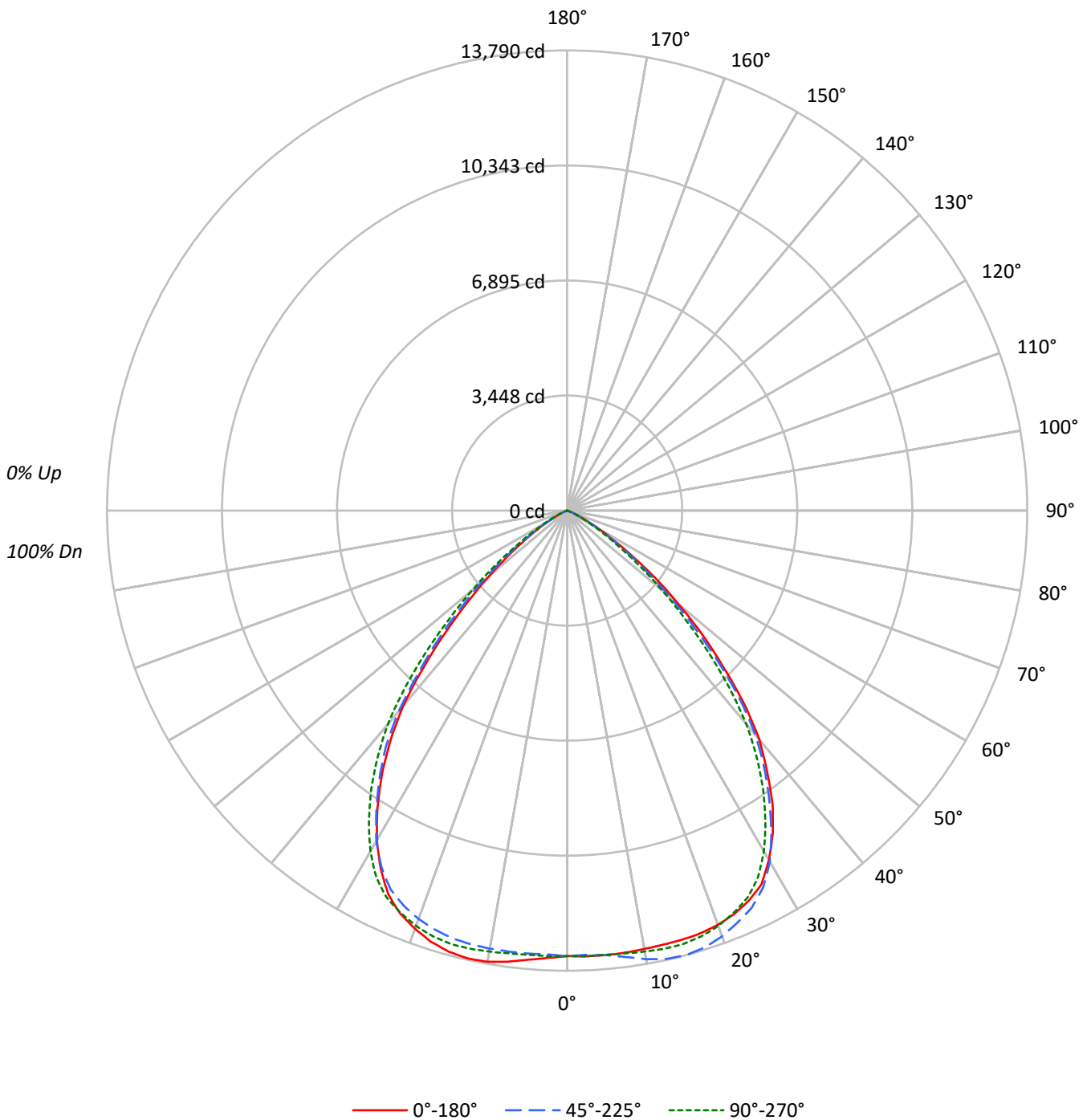
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	411680	411680	411680
5°	413872	413584	418156
10°	417699	420198	429826
15°	425015	429264	436824
20°	433474	434609	437579
25°	438754	435451	431647
30°	430496	419974	405856
35°	403881	385894	364806
40°	360792	336366	307971
45°	287737	259008	224478
50°	208442	177926	144921
55°	129280	105174	83137
60°	66477	52280	41777
65°	28354	21262	16315
70°	8998	4436	2876
75°	2383	1430	1430
80°	1882	1190	941
85°	1415	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.1	5.3
10°-20°	3810.0	15.8
20°-30°	5856.3	24.4
30°-40°	6330.6	26.3
40°-50°	4555.4	18.9
50°-60°	1838.2	7.6
60°-70°	353.5	1.5
70°-80°	21.0	0.1
80°-90°	3.0	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°	10946.4	45.5
0°-40°	17276.9	71.8
0°-60°	23670.6	98.4
0°-90°	24048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24048.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13350	13350	13350	13350	13350	
5°	13370	13374	13361	13323	13509	###
15°	13313	13790	13446	13269	13683	3768
25°	12895	13116	12798	12523	12686	5916
35°	10729	10558	10251	9808	9691	6644
45°	6598	6402	5939	5452	5148	5097
55°	2405	2224	1956	1690	1546	2242
65°	389	397	291	228	224	455
75°	20	16	12	12	12	33
85°	4	3	1	1	1	5
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°	13350.5	13350.5	13350.5	13350.5	13350.5	13350.5	13350.5	13350.5	13350.5
2.5°	13370.5	13351.9	13325.3	13323.9	13366.5	13342.6	13313.3	13343.9	13419.7
5°	13370.5	13373.2	13374.5	13362.5	13361.2	13321.3	13322.6	13405.1	13508.9
7.5°	13361.2	13413.1	13494.3	13475.6	13382.5	13294.6	13330.6	13496.9	13635.3
10°	13339.9	13461.0	13647.3	13619.4	13419.7	13270.7	13327.9	13559.5	13727.2
12.5°	13321.3	13487.6	13763.1	13729.8	13450.3	13254.7	13311.9	13567.5	13748.4
15°	13313.3	13492.9	13789.7	13748.4	13446.4	13222.8	13269.4	13508.9	13683.2
17.5°	13284.0	13451.7	13723.2	13672.6	13377.2	13148.3	13168.2	13386.5	13551.5
20°	13209.5	13353.2	13575.4	13506.2	13244.1	13013.8	13020.5	13185.5	13334.6
22.5°	13083.1	13196.2	13357.2	13290.7	13045.8	12836.9	12808.9	12947.3	13072.4
25°	12895.4	12987.2	13116.3	13044.5	12798.3	12585.3	12522.8	12610.6	12686.5
27.5°	12619.9	12651.9	12725.1	12614.6	12387.0	12178.1	12047.7	12061.0	12100.9
30°	12090.3	12142.2	12148.8	12022.4	11794.8	11552.6	11432.9	11366.3	11398.3
32.5°	11467.5	11452.8	11386.3	11233.2	11054.9	10862.0	10635.7	10559.9	10577.2
35°	10728.9	10694.3	10558.5	10412.1	10251.1	10014.2	9808.0	9696.2	9690.9
37.5°	9829.3	9782.7	9693.5	9491.2	9343.5	9143.9	8919.0	8795.2	8702.1
40°	8962.9	8889.7	8784.6	8542.4	8356.1	8077.9	7847.7	7676.0	7650.7
42.5°	7845.0	7809.1	7658.7	7415.2	7182.3	6853.6	6586.1	6442.4	6367.9
45°	6598.1	6598.1	6402.5	6188.2	5939.3	5694.5	5452.3	5238.0	5147.5
47.5°	5481.5	5343.1	5158.2	4929.3	4746.9	4573.9	4317.1	4053.6	3992.4
50°	4345.0	4257.2	4039.0	3820.7	3708.9	3543.9	3341.6	3086.1	3020.9
52.5°	3357.6	3219.2	3030.2	2867.9	2762.7	2633.6	2414.1	2239.7	2206.5
55°	2404.7	2334.2	2223.8	2090.7	1956.3	1820.5	1690.1	1590.3	1546.4
57.5°	1647.5	1623.6	1531.7	1453.2	1322.8	1203.0	1083.3	1051.3	1054.0
60°	1077.9	1076.6	1031.4	960.8	847.7	738.6	682.7	666.7	677.4
62.5°	652.1	664.1	652.1	610.8	524.3	440.5	400.6	408.6	401.9
65°	388.6	400.6	396.6	343.3	291.4	255.5	227.6	216.9	223.6
67.5°	226.2	219.6	202.3	177.0	145.1	119.8	101.1	91.8	93.2
70°	99.8	94.5	85.2	65.2	49.2	39.9	33.3	30.6	31.9
72.5°	37.3	35.9	30.6	25.3	21.3	17.3	16.0	16.0	16.0
75°	20.0	18.6	16.0	13.3	12.0	12.0	12.0	12.0	12.0
77.5°	14.6	13.3	12.0	10.6	9.3	8.0	8.0	8.0	8.0
80°	10.6	9.3	8.0	6.7	6.7	5.3	5.3	5.3	5.3
82.5°	6.7	6.7	5.3	4.0	4.0	2.7	2.7	2.7	2.7
85°	4.0	4.0	2.7	2.7	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)