

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: P248140

Luminaire Tested: **LD8B200D010 ER8B200850 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248140
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 ER8B200850 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24359.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

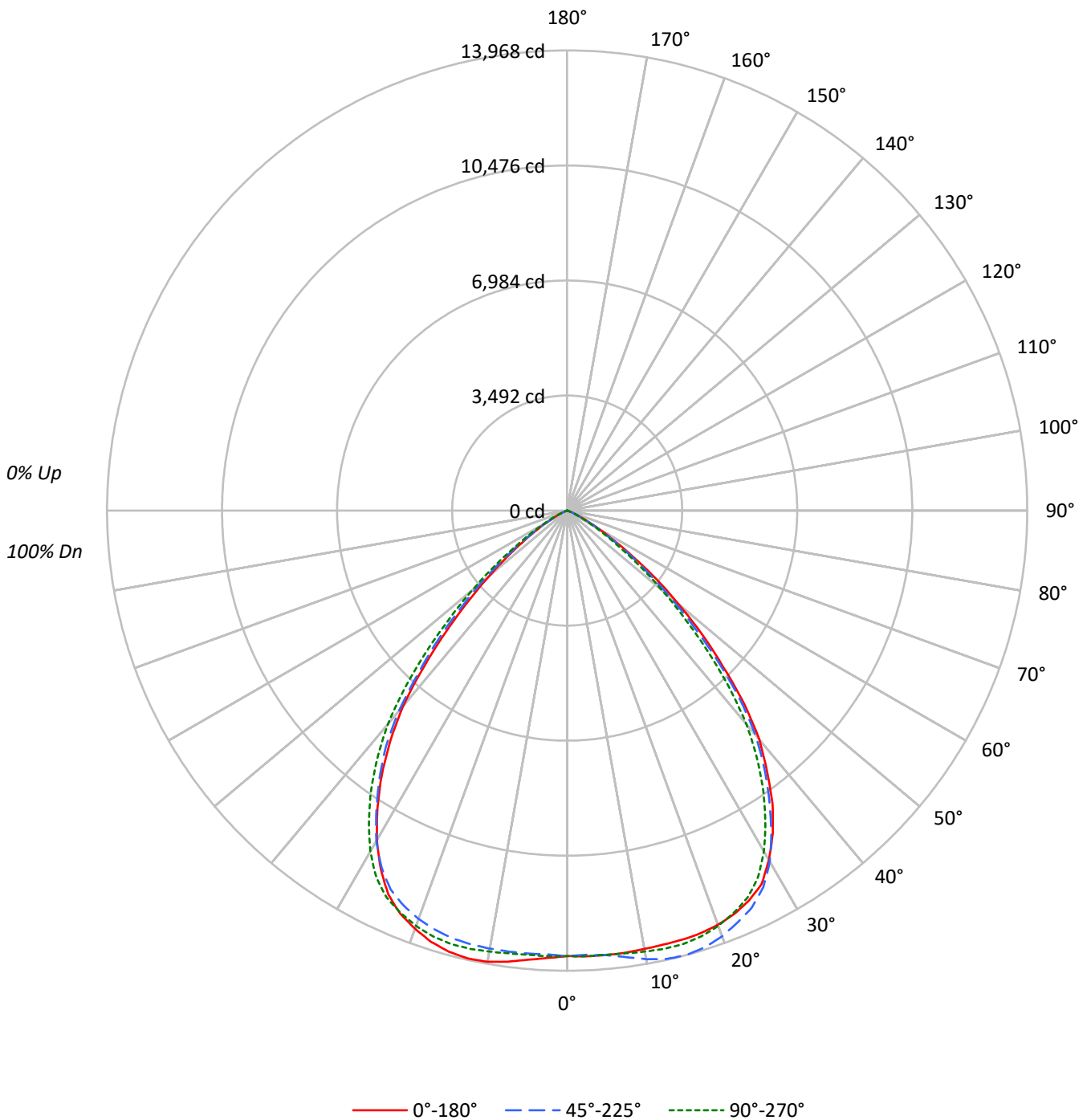
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	417006	417006	417006
5°	419224	418933	423564
10°	423100	425634	435384
15°	430512	434816	442474
20°	439079	440231	443237
25°	444430	441082	437227
30°	436061	425408	411104
35°	409102	390886	369523
40°	365458	340713	311956
45°	291457	262361	227382
50°	211138	180229	146797
55°	130952	106534	84212
60°	67340	52958	42314
65°	28719	21539	16527
70°	9115	4499	2921
75°	2407	1442	1442
80°	1918	1190	959
85°	1415	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.6	5.3
10°-20°	3859.2	15.8
20°-30°	5932.0	24.4
30°-40°	6412.4	26.3
40°-50°	4614.3	18.9
50°-60°	1862.0	7.6
60°-70°	358.0	1.5
70°-80°	21.3	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°	11087.9	45.5
0°-40°	17500.4	71.8
0°-60°	23976.7	98.4
0°-90°	24359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13523	13523	13523	13523	13523	
5°	13543	13548	13534	13495	13684	###
15°	13486	13968	13620	13441	13860	3817
25°	13062	13286	12964	12685	12850	5993
35°	10868	10695	10384	9935	9816	6730
45°	6683	6485	6016	5523	5214	5163
55°	2436	2252	1982	1712	1566	2270
65°	394	402	295	230	226	460
75°	20	16	12	12	12	34
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°	13523.2	13523.2	13523.2	13523.2	13523.2	13523.2	13523.2	13523.2	13523.2
2.5°	13543.4	13524.5	13497.6	13496.2	13539.4	13515.1	13485.5	13516.5	13593.3
5°	13543.4	13546.1	13547.5	13535.3	13534.0	13493.5	13494.9	13578.5	13683.6
7.5°	13534.0	13586.6	13668.8	13649.9	13555.5	13466.6	13503.0	13671.5	13811.7
10°	13512.4	13635.1	13823.8	13795.5	13593.3	13442.3	13500.3	13734.8	13904.7
12.5°	13493.5	13662.0	13941.1	13907.4	13624.3	13426.1	13484.1	13742.9	13926.2
15°	13485.5	13667.4	13968.0	13926.2	13620.3	13393.8	13441.0	13683.6	13860.2
17.5°	13455.8	13625.6	13900.6	13849.4	13550.2	13318.3	13338.5	13559.6	13726.7
20°	13380.3	13525.9	13751.0	13680.9	13415.4	13182.1	13188.9	13356.0	13507.0
22.5°	13252.2	13366.8	13529.9	13462.5	13214.5	13002.9	12974.6	13114.7	13241.5
25°	13062.2	13155.2	13285.9	13213.2	12963.8	12748.1	12684.7	12773.7	12850.5
27.5°	12783.1	12815.5	12889.6	12777.7	12547.2	12335.6	12203.5	12217.0	12257.4
30°	12246.6	12299.2	12305.9	12177.9	11947.4	11702.0	11580.7	11513.3	11545.7
32.5°	11615.8	11600.9	11533.5	11378.5	11197.9	11002.4	10773.3	10696.4	10714.0
35°	10867.6	10832.6	10695.1	10546.8	10383.7	10143.7	9934.8	9821.6	9816.2
37.5°	9956.4	9909.2	9818.9	9614.0	9464.3	9262.1	9034.3	8909.0	8814.6
40°	9078.8	9004.7	8898.2	8652.8	8464.1	8182.4	7949.2	7775.3	7749.7
42.5°	7946.5	7910.1	7757.8	7511.1	7275.2	6942.2	6671.3	6525.7	6450.2
45°	6683.4	6683.4	6485.3	6268.2	6016.2	5768.1	5522.8	5305.8	5214.1
47.5°	5552.4	5412.2	5224.9	4993.0	4808.3	4633.1	4372.9	4106.0	4044.0
50°	4401.2	4312.3	4091.2	3870.1	3756.9	3589.7	3384.8	3126.0	3060.0
52.5°	3401.0	3260.8	3069.4	2905.0	2798.5	2667.7	2445.3	2268.7	2235.0
55°	2435.8	2364.4	2252.5	2117.7	1981.6	1844.1	1712.0	1610.9	1566.4
57.5°	1668.8	1644.6	1551.6	1472.0	1339.9	1218.6	1097.3	1064.9	1067.6
60°	1091.9	1090.5	1044.7	973.3	858.7	748.1	691.5	675.4	686.1
62.5°	660.5	672.7	660.5	618.7	531.1	446.2	405.7	413.8	407.1
65°	393.6	405.7	401.7	347.8	295.2	258.8	230.5	219.7	226.5
67.5°	229.2	222.4	204.9	179.3	146.9	121.3	102.4	93.0	94.4
70°	101.1	95.7	86.3	66.1	49.9	40.4	33.7	31.0	32.4
72.5°	37.7	36.4	31.0	25.6	21.6	17.5	16.2	16.2	16.2
75°	20.2	18.9	16.2	13.5	12.1	12.1	12.1	12.1	12.1
77.5°	14.8	13.5	12.1	10.8	9.4	8.1	8.1	8.1	8.1
80°	10.8	9.4	8.1	6.7	6.7	5.4	5.4	5.4	5.4
82.5°	6.7	6.7	5.4	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)