

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: P248128

Luminaire Tested: **LD8B200D010 ER8B200827 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248128
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 ER8B200827 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22561.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

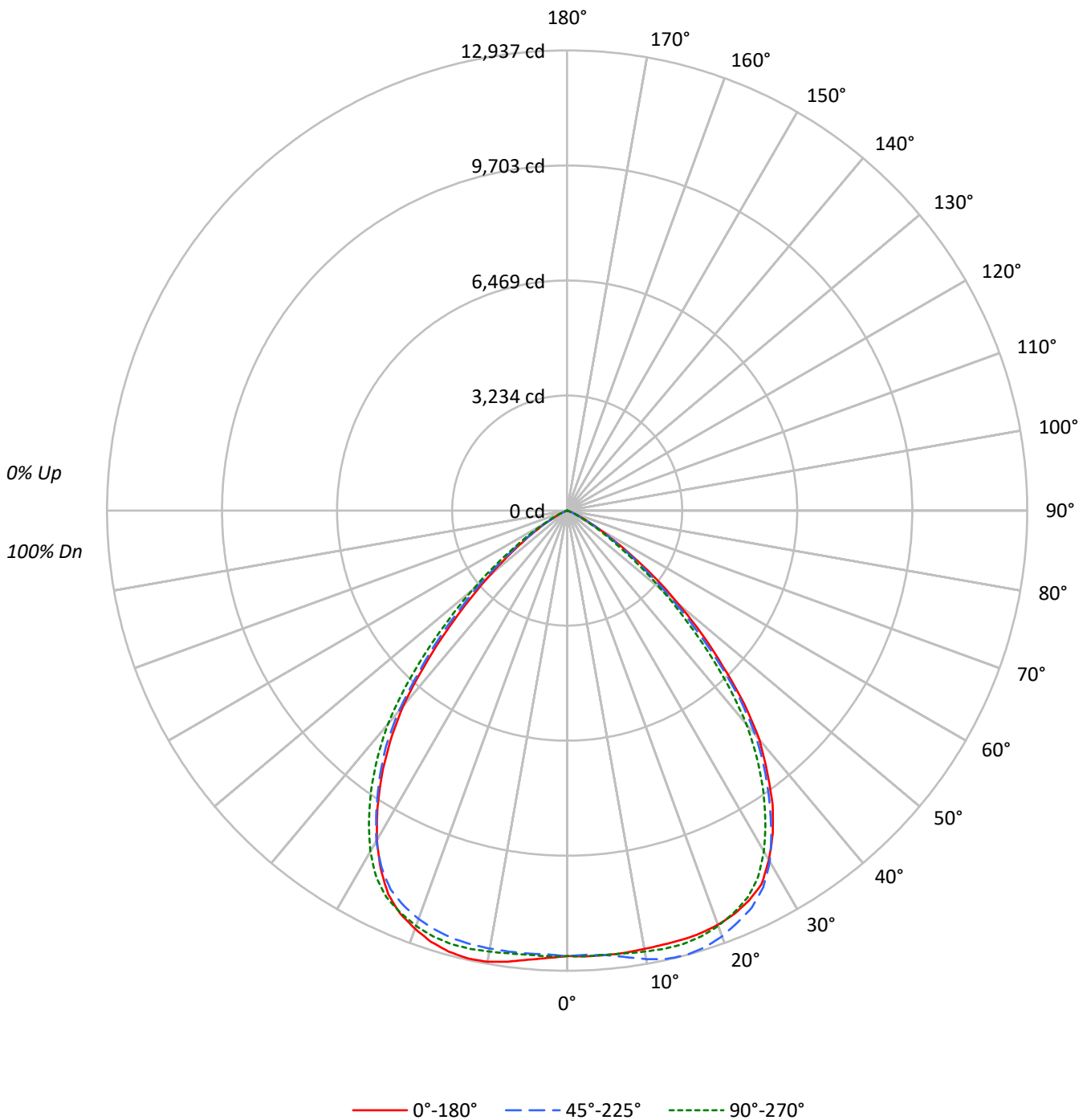
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248128

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248128

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBS0WH

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°	386225	386225	386225
5°	388279	388010	392300
10°	391870	394215	403246
15°	398735	402719	409813
20°	406670	407734	410520
25°	411624	408524	404955
30°	403876	394006	380760
35°	378908	362032	342246
40°	338483	315567	288931
45°	269945	242994	210597
50°	195556	166926	135960
55°	121291	98668	77997
60°	62370	49048	39193
65°	26603	19949	15301
70°	8439	4165	2705
75°	2228	1334	1334
80°	1776	1101	888
85°	1309	425	425



TEST NUMBER: P248128

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.9	5.3
10°-20°	3574.4	15.8
20°-30°	5494.2	24.4
30°-40°	5939.1	26.3
40°-50°	4273.7	18.9
50°-60°	1724.5	7.6
60°-70°	331.6	1.5
70°-80°	19.7	0.1
80°-90°	2.8	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°	10269.5	45.5
0°-40°	16208.6	71.8
0°-60°	22206.9	98.4
0°-90°	22561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22561.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12525	12525	12525	12525	12525	
5°	12544	12548	12535	12499	12674	###
15°	12490	12937	12615	12449	12837	3535
25°	12098	12305	12007	11748	11902	5550
35°	10066	9906	9617	9202	9092	6233
45°	6190	6007	5572	5115	4829	4782
55°	2256	2086	1835	1586	1451	2103
65°	365	372	273	214	210	427
75°	19	15	11	11	11	31
85°	4	2	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P248128

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12525.0	12525.0	12525.0	12525.0	12525.0	12525.0	12525.0	12525.0	12525.0
2.5°	12543.7	12526.3	12501.3	12500.0	12540.0	12517.5	12490.1	12518.8	12589.9
5°	12543.7	12546.2	12547.5	12536.3	12535.0	12497.5	12498.8	12576.2	12673.6
7.5°	12535.0	12583.7	12659.9	12642.4	12555.0	12472.6	12506.3	12662.3	12792.2
10°	12515.0	12628.6	12803.4	12777.2	12589.9	12450.1	12503.8	12721.0	12878.3
12.5°	12497.5	12653.6	12912.1	12880.8	12618.7	12435.1	12488.8	12728.5	12898.3
15°	12490.1	12658.6	12937.0	12898.3	12614.9	12405.2	12448.9	12673.6	12837.1
17.5°	12462.6	12619.9	12874.6	12827.2	12550.0	12335.2	12354.0	12558.7	12713.5
20°	12392.7	12527.5	12736.0	12671.1	12425.1	12209.1	12215.4	12370.2	12510.0
22.5°	12274.1	12380.2	12531.3	12468.8	12239.1	12043.1	12016.9	12146.7	12264.1
25°	12098.0	12184.2	12305.3	12237.9	12006.9	11807.1	11748.4	11830.8	11902.0
27.5°	11839.6	11869.5	11938.2	11834.6	11621.1	11425.1	11302.7	11315.2	11352.7
30°	11342.7	11391.4	11397.6	11279.0	11065.5	10838.3	10725.9	10663.5	10693.5
32.5°	10758.4	10744.6	10682.2	10538.6	10371.3	10190.3	9978.1	9906.9	9923.1
35°	10065.5	10033.0	9905.6	9768.3	9617.2	9395.0	9201.5	9096.6	9091.6
37.5°	9221.5	9177.8	9094.1	8904.3	8765.8	8578.5	8367.5	8251.4	8164.0
40°	8408.7	8340.0	8241.4	8014.2	7839.4	7578.4	7362.4	7201.4	7177.7
42.5°	7359.9	7326.2	7185.2	6956.7	6738.2	6429.8	6178.9	6044.0	5974.1
45°	6190.1	6190.1	6006.6	5805.6	5572.1	5342.4	5115.1	4914.1	4829.2
47.5°	5142.6	5012.8	4839.2	4624.5	4453.4	4291.1	4050.2	3802.9	3745.5
50°	4076.4	3994.0	3789.2	3584.5	3479.6	3324.8	3135.0	2895.3	2834.1
52.5°	3150.0	3020.1	2842.8	2690.5	2591.9	2470.8	2264.8	2101.2	2070.0
55°	2256.1	2189.9	2086.3	1961.4	1835.3	1708.0	1585.6	1492.0	1450.8
57.5°	1545.7	1523.2	1437.0	1363.4	1241.0	1128.6	1016.3	986.3	988.8
60°	1011.3	1010.0	967.6	901.4	795.3	692.9	640.5	625.5	635.5
62.5°	611.8	623.0	611.8	573.1	491.9	413.3	375.8	383.3	377.0
65°	364.6	375.8	372.1	322.1	273.4	239.7	213.5	203.5	209.7
67.5°	212.2	206.0	189.8	166.1	136.1	112.4	94.9	86.1	87.4
70°	93.6	88.6	79.9	61.2	46.2	37.5	31.2	28.7	30.0
72.5°	35.0	33.7	28.7	23.7	20.0	16.2	15.0	15.0	15.0
75°	18.7	17.5	15.0	12.5	11.2	11.2	11.2	11.2	11.2
77.5°	13.7	12.5	11.2	10.0	8.7	7.5	7.5	7.5	7.5
80°	10.0	8.7	7.5	6.2	6.2	5.0	5.0	5.0	5.0
82.5°	6.2	6.2	5.0	3.7	3.7	2.5	2.5	2.5	2.5
85°	3.7	3.7	2.5	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)