

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: P248167

Luminaire Tested: **LD8B200D010 ER8B200830 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18584.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

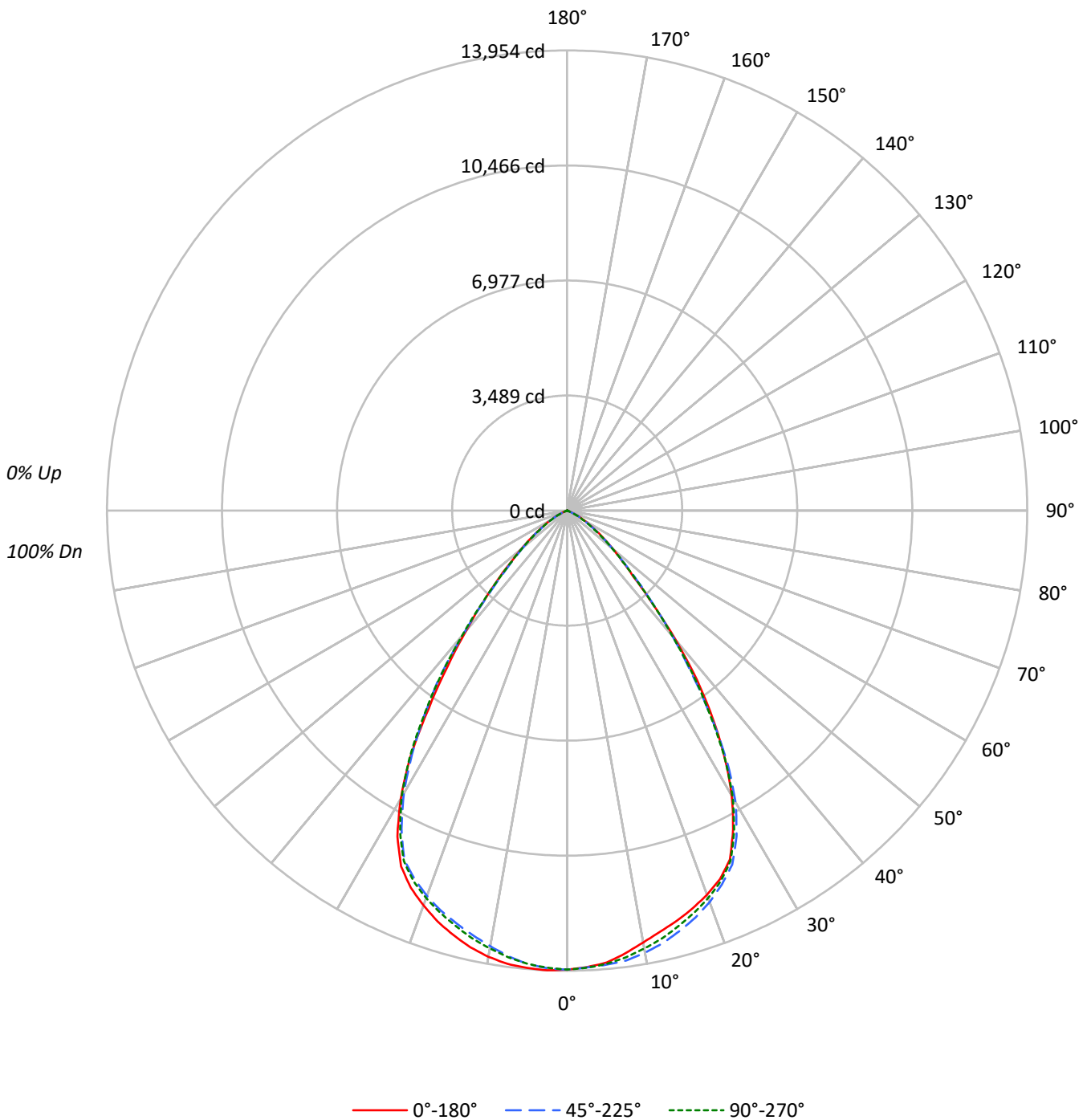
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248167

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248167

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBW0GPH

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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	429214	429214	429214
5°	425904	427092	430974
10°	416321	422211	430227
15°	410975	416491	425440
20°	406785	410356	418041
25°	397252	398865	405224
30°	355579	357402	359407
35°	289785	283958	275574
40°	205500	199784	192418
45°	125298	127417	129986
50°	86567	84969	86754
55°	58761	54632	56353
60°	38120	33229	34888
65°	20080	15965	17183
70°	5310	4499	4039
75°	917	1835	1072
80°	0	0	462
85°	920	920	920



TEST NUMBER: P248167

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1308.8	7.0
10°-20°	3686.9	19.8
20°-30°	5316.6	28.6
30°-40°	4669.2	25.1
40°-50°	2361.0	12.7
50°-60°	966.4	5.2
60°-70°	254.0	1.4
70°-80°	17.9	0.1
80°-90°	3.2	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°	10312.2	55.5
0°-40°	14981.4	80.6
0°-60°	18308.8	98.5
0°-90°	18584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13919	13919	13919	13919	13919	
5°	13759	13822	13798	13798	13923	###
15°	12874	13192	13046	12962	13327	3633
25°	11676	11843	11723	11681	11910	5275
35°	7698	7566	7543	7511	7320	4746
45°	2873	3008	2922	2848	2981	2371
55°	1093	1049	1016	1014	1048	1010
65°	275	244	219	216	236	281
75°	8	5	15	5	9	19
85°	3	3	3	1	3	5
90°	0	0	0	0	0	



TEST NUMBER: P248167

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13919.1	13919.1	13919.1	13919.1	13919.1	13919.1	13919.1	13919.1	13919.1
2.5°	13855.2	13923.0	13862.8	13898.7	13874.3	13834.7	13889.7	13864.1	13953.7
5°	13759.2	13841.1	13821.9	13866.7	13797.6	13724.6	13797.6	13804.0	13923.0
7.5°	13540.3	13681.1	13761.7	13815.5	13663.2	13544.2	13631.2	13709.3	13862.8
10°	13295.9	13466.1	13612.0	13695.2	13484.0	13310.0	13413.6	13546.7	13740.0
12.5°	13070.6	13258.8	13431.5	13512.2	13289.5	13093.7	13192.2	13357.3	13564.6
15°	12873.5	13028.4	13192.2	13275.4	13046.3	12860.7	12961.8	13114.1	13326.6
17.5°	12648.3	12794.2	12938.8	13004.1	12791.6	12630.4	12722.5	12853.1	13064.2
20°	12396.2	12521.6	12631.7	12708.4	12505.0	12351.4	12434.6	12556.2	12739.2
22.5°	12100.5	12195.2	12266.9	12336.0	12170.9	12018.6	12090.3	12186.3	12379.5
25°	11675.6	11771.6	11843.3	11921.4	11723.0	11592.5	11680.8	11721.7	11909.9
27.5°	10897.5	11019.1	11126.6	11195.7	10969.2	10856.6	10879.6	10947.4	11147.1
30°	9986.3	10045.2	10209.0	10229.5	10037.5	9841.7	9904.4	9976.1	10093.8
32.5°	8903.6	8936.9	9031.6	9041.8	8898.5	8747.5	8748.7	8716.7	8835.8
35°	7698.0	7622.5	7566.2	7604.6	7543.2	7570.0	7511.2	7364.0	7320.5
37.5°	6452.8	6404.1	6157.1	6137.9	6281.3	6368.3	6310.7	5983.1	5960.0
40°	5105.1	5050.1	4958.0	4943.9	4963.1	5013.0	4906.8	4809.5	4780.1
42.5°	3820.2	3849.6	3879.1	3906.0	3850.9	3743.4	3738.3	3720.4	3789.5
45°	2873.2	2935.9	3007.5	3043.4	2921.8	2838.6	2847.6	2887.2	2980.7
47.5°	2271.7	2284.4	2311.3	2342.0	2270.4	2164.1	2192.3	2256.3	2297.2
50°	1804.5	1817.3	1809.6	1805.8	1771.2	1707.3	1746.9	1794.3	1808.4
52.5°	1423.1	1406.5	1392.4	1383.5	1361.7	1336.1	1343.8	1383.5	1405.2
55°	1093.0	1080.2	1049.4	1036.6	1016.2	1009.8	1013.6	1044.3	1048.2
57.5°	821.6	803.7	773.0	748.7	750.0	739.7	744.8	766.6	778.1
60°	618.1	606.6	552.9	556.7	538.8	536.2	547.8	560.6	565.7
62.5°	427.5	431.3	390.3	385.2	376.3	377.5	385.2	395.5	396.7
65°	275.2	258.5	244.4	234.2	218.8	211.2	216.3	244.4	235.5
67.5°	107.5	113.9	92.1	107.5	99.8	84.5	97.3	108.8	103.7
70°	58.9	60.2	49.9	47.4	49.9	46.1	52.5	58.9	44.8
72.5°	37.1	37.1	26.9	26.9	34.6	23.0	26.9	42.2	33.3
75°	7.7	9.0	5.1	2.6	15.4	7.7	5.1	15.4	9.0
77.5°	0.0	9.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6
80°	0.0	0.0	0.0	3.8	0.0	0.0	0.0	2.6	2.6
82.5°	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.6	0.0
85°	2.6	10.2	2.6	0.0	2.6	2.6	1.3	7.7	2.6
87.5°	16.6	7.7	1.3	7.7	6.4	7.7	9.0	7.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)