

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: P248155

Luminaire Tested: **LD8B200D010 ER8B200950 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248155
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 ER8B200950 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22176.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

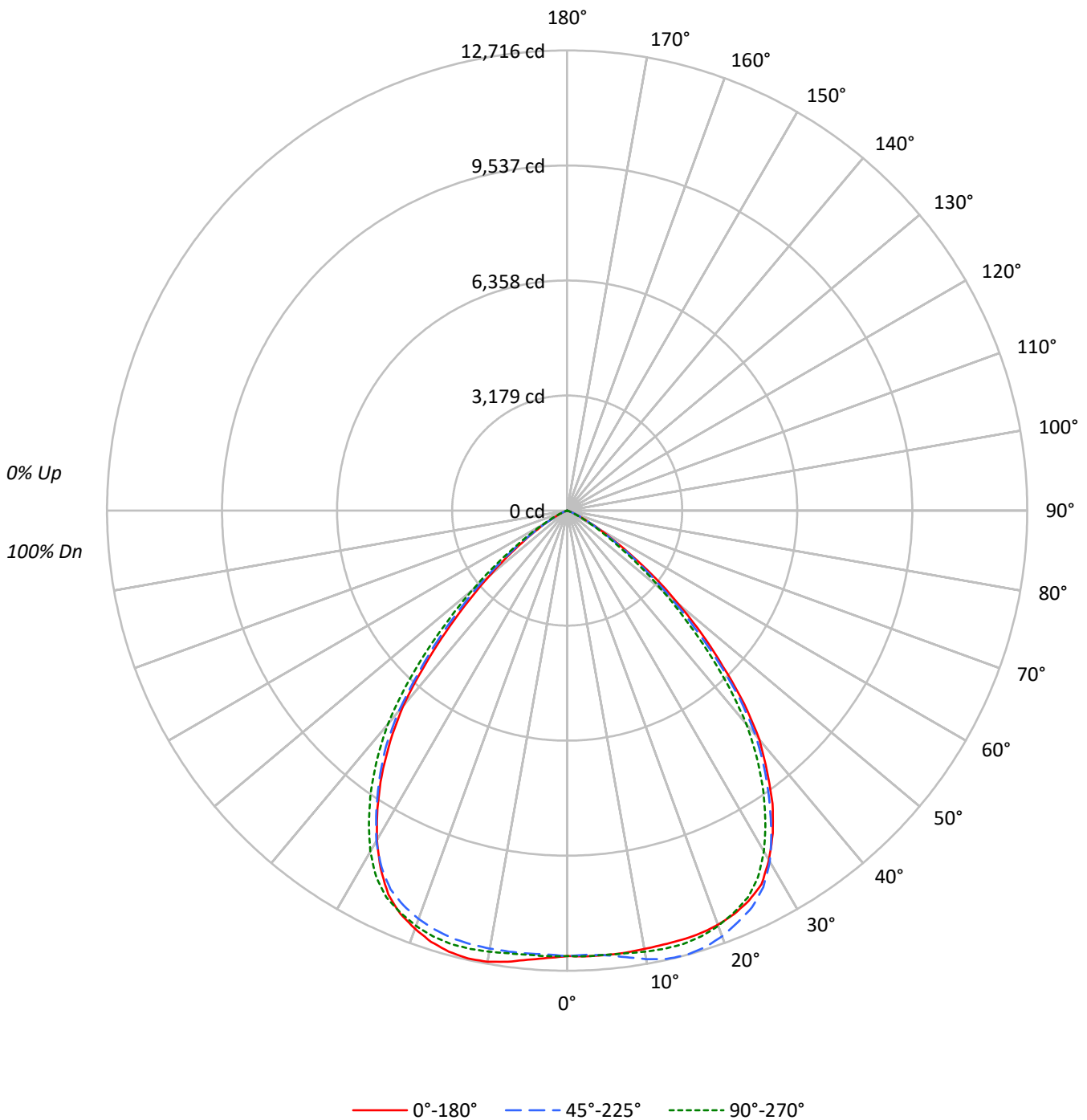
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248155

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248155

CATALOG NUMBER: LD8B200D010 ER8B200950 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°	379635	379635	379635
5°	381655	381389	385605
10°	385185	387489	396366
15°	391929	395846	402822
20°	399730	400777	403514
25°	404601	401553	398045
30°	396983	387283	374262
35°	372440	355854	336407
40°	332707	310181	284000
45°	265340	238847	207004
50°	192217	164077	133638
55°	119221	96986	76664
60°	61303	48209	38521
65°	26143	19613	15045
70°	8295	4093	2660
75°	2192	1311	1311
80°	1740	1083	870
85°	1309	425	425



TEST NUMBER: P248155

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.4	5.3
10°-20°	3513.4	15.8
20°-30°	5400.4	24.4
30°-40°	5837.8	26.3
40°-50°	4200.8	18.9
50°-60°	1695.1	7.6
60°-70°	325.9	1.5
70°-80°	19.4	0.1
80°-90°	2.7	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°	10094.3	45.5
0°-40°	15932.0	71.8
0°-60°	21827.9	98.4
0°-90°	22176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22176.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12311	12311	12311	12311	12311	
5°	12330	12333	12321	12286	12457	###
15°	12277	12716	12400	12236	12618	3475
25°	11892	12095	11802	11548	11699	5456
35°	9894	9737	9453	9044	8936	6127
45°	6084	5904	5477	5028	4747	4700
55°	2218	2051	1804	1558	1426	2067
65°	358	366	269	210	206	419
75°	18	15	11	11	11	31
85°	4	2	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P248155

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12311.3	12311.3	12311.3	12311.3	12311.3	12311.3	12311.3	12311.3	12311.3
2.5°	12329.7	12312.5	12288.0	12286.7	12326.0	12303.9	12276.9	12305.1	12375.1
5°	12329.7	12332.1	12333.4	12322.3	12321.1	12284.3	12285.5	12361.6	12457.3
7.5°	12321.1	12369.0	12443.8	12426.6	12340.7	12259.7	12292.9	12446.3	12573.9
10°	12301.5	12413.1	12584.9	12559.2	12375.1	12237.6	12290.4	12503.9	12658.6
12.5°	12284.3	12437.7	12691.7	12661.0	12403.3	12222.9	12275.7	12511.3	12678.2
15°	12276.9	12442.6	12716.3	12678.2	12399.6	12193.5	12236.4	12457.3	12618.1
17.5°	12249.9	12404.5	12654.9	12608.3	12335.8	12124.7	12143.1	12344.4	12496.6
20°	12181.2	12313.7	12518.7	12454.9	12213.1	12000.8	12006.9	12159.1	12296.5
22.5°	12064.6	12168.9	12317.4	12256.1	12030.2	11837.6	11811.8	11939.4	12054.8
25°	11891.6	11976.3	12095.3	12029.0	11802.0	11605.6	11548.0	11629.0	11698.9
27.5°	11637.5	11667.0	11734.5	11632.6	11422.8	11230.1	11109.8	11122.1	11158.9
30°	11149.1	11197.0	11203.1	11086.5	10876.7	10653.3	10542.9	10481.5	10511.0
32.5°	10574.8	10561.3	10499.9	10358.8	10194.4	10016.4	9807.8	9737.8	9753.8
35°	9893.7	9861.8	9736.6	9601.6	9453.1	9234.7	9044.5	8941.4	8936.5
37.5°	9064.1	9021.2	8938.9	8752.4	8616.2	8432.1	8224.7	8110.6	8024.7
40°	8265.2	8197.7	8100.8	7877.4	7705.6	7449.1	7236.8	7078.5	7055.2
42.5°	7234.3	7201.2	7062.5	6838.0	6623.2	6320.1	6073.4	5940.9	5872.2
45°	6084.5	6084.5	5904.1	5706.5	5477.0	5251.2	5027.8	4830.3	4746.8
47.5°	5054.8	4927.2	4756.6	4545.6	4377.4	4217.9	3981.0	3738.1	3681.6
50°	4006.8	3925.8	3724.6	3523.3	3420.2	3268.0	3081.5	2845.9	2785.7
52.5°	3096.2	2968.6	2794.3	2644.6	2547.7	2428.6	2226.1	2065.4	2034.7
55°	2217.6	2152.5	2050.7	1927.9	1804.0	1678.8	1558.5	1466.5	1426.0
57.5°	1519.3	1497.2	1412.5	1340.1	1219.8	1109.4	998.9	969.5	971.9
60°	994.0	992.8	951.1	886.0	781.7	681.1	629.6	614.8	624.6
62.5°	601.3	612.4	601.3	563.3	483.5	406.2	369.4	376.8	370.6
65°	358.3	369.4	365.7	316.6	268.8	235.6	209.9	200.0	206.2
67.5°	208.6	202.5	186.5	163.2	133.8	110.4	93.3	84.7	85.9
70°	92.0	87.1	78.5	60.1	45.4	36.8	30.7	28.2	29.5
72.5°	34.4	33.1	28.2	23.3	19.6	16.0	14.7	14.7	14.7
75°	18.4	17.2	14.7	12.3	11.0	11.0	11.0	11.0	11.0
77.5°	13.5	12.3	11.0	9.8	8.6	7.4	7.4	7.4	7.4
80°	9.8	8.6	7.4	6.1	6.1	4.9	4.9	4.9	4.9
82.5°	6.1	6.1	4.9	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)