

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: P248188

Luminaire Tested: **LD8B200D010 ER8B200940 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248188
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 ER8B200940 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17213.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

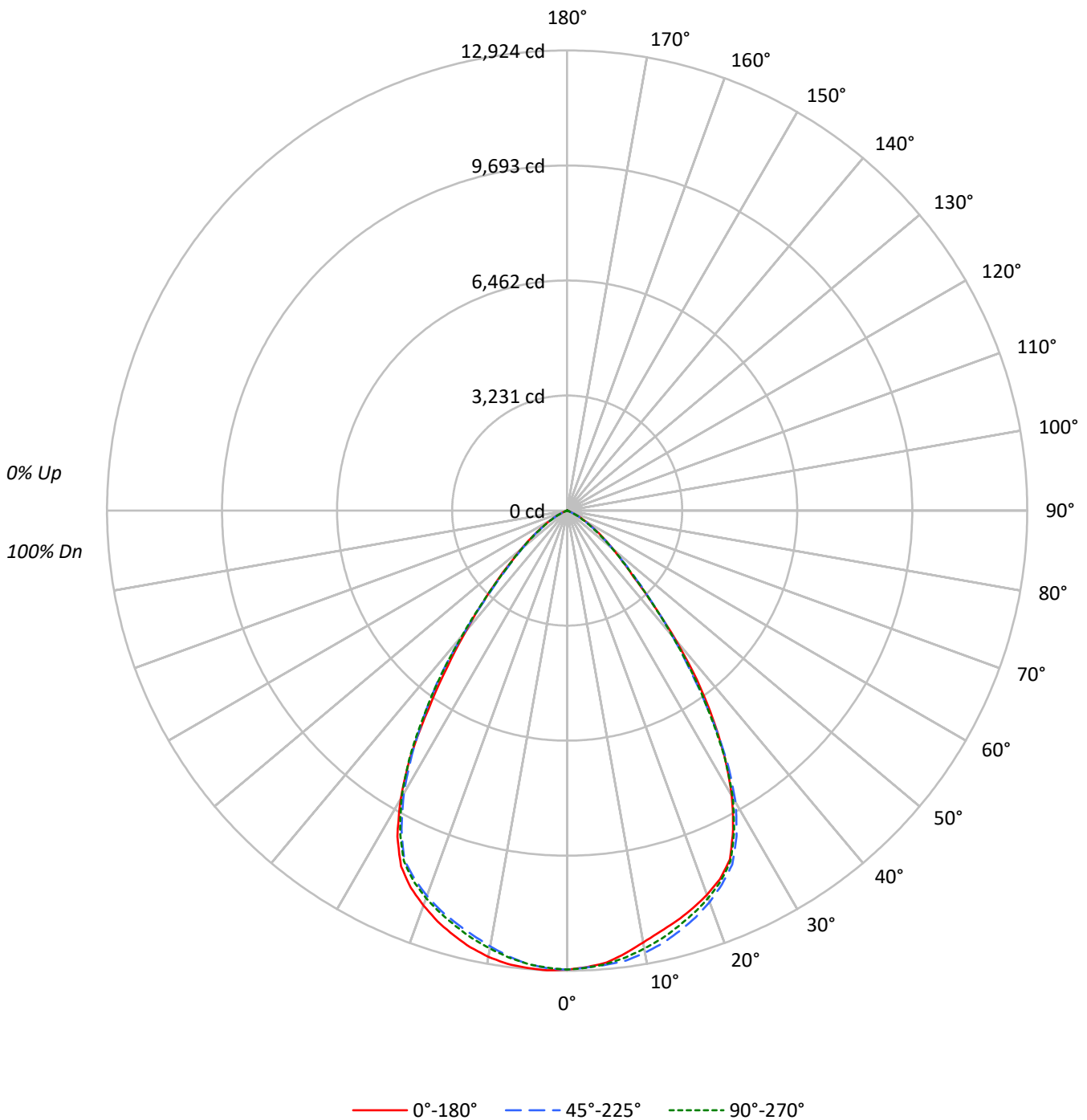
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	397551	397551	397551
5°	394482	395584	399178
10°	385607	391065	398486
15°	380657	385764	394052
20°	376776	380080	387201
25°	367947	369441	375327
30°	329348	331036	332894
35°	268407	263009	255243
40°	190341	185043	178220
45°	116053	118015	120396
50°	80182	78704	80354
55°	54423	50600	52192
60°	35308	30775	32310
65°	18599	14790	15914
70°	4914	4165	3742
75°	846	1692	989
80°	0	0	426
85°	849	849	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.2	7.0
10°-20°	3414.9	19.8
20°-30°	4924.4	28.6
30°-40°	4324.7	25.1
40°-50°	2186.8	12.7
50°-60°	895.1	5.2
60°-70°	235.3	1.4
70°-80°	16.6	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°	9551.5	55.5
0°-40°	13876.2	80.6
0°-60°	16958.1	98.5
0°-90°	17213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12892	12892	12892	12892	12892	
5°	12744	12802	12780	12780	12896	###
15°	11924	12219	12084	12006	12343	3365
25°	10814	10970	10858	10819	11031	4886
35°	7130	7008	6987	6957	6780	4396
45°	2661	2786	2706	2638	2761	2196
55°	1012	972	941	939	971	936
65°	255	226	203	200	218	261
75°	7	5	14	5	8	18
85°	2	2	2	1	2	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°	12892.3	12892.3	12892.3	12892.3	12892.3	12892.3	12892.3	12892.3	12892.3
2.5°	12833.0	12895.8	12840.1	12873.3	12850.8	12814.0	12865.0	12841.3	12924.3
5°	12744.1	12820.0	12802.2	12843.7	12779.7	12712.1	12779.7	12785.6	12895.8
7.5°	12541.4	12671.8	12746.5	12796.3	12655.2	12545.0	12625.6	12697.9	12840.1
10°	12315.0	12472.7	12607.8	12684.8	12489.3	12328.0	12424.1	12547.3	12726.3
12.5°	12106.4	12280.6	12440.6	12515.3	12309.1	12127.7	12219.0	12371.9	12563.9
15°	11923.8	12067.3	12219.0	12296.0	12083.8	11912.0	12005.6	12146.7	12343.4
17.5°	11715.2	11850.3	11984.3	12044.7	11848.0	11698.6	11783.9	11904.9	12100.4
20°	11481.7	11597.8	11699.8	11770.9	11582.4	11440.2	11517.2	11629.8	11799.4
22.5°	11207.8	11295.6	11361.9	11426.0	11273.0	11132.0	11198.4	11287.3	11466.3
25°	10814.3	10903.2	10969.6	11041.9	10858.2	10737.2	10819.0	10857.0	11031.2
27.5°	10093.6	10206.2	10305.8	10369.8	10160.0	10055.6	10077.0	10139.8	10324.7
30°	9249.6	9304.1	9455.8	9474.8	9297.0	9115.6	9173.7	9240.1	9349.2
32.5°	8246.7	8277.6	8365.3	8374.8	8242.0	8102.1	8103.3	8073.7	8183.9
35°	7130.1	7060.2	7008.0	7043.6	6986.7	7011.6	6957.0	6820.7	6780.4
37.5°	5976.7	5931.7	5702.9	5685.1	5817.9	5898.5	5845.1	5541.7	5520.4
40°	4728.5	4677.5	4592.2	4579.2	4596.9	4643.2	4544.8	4454.7	4427.4
42.5°	3538.4	3565.6	3592.9	3617.8	3566.8	3467.3	3462.5	3445.9	3509.9
45°	2661.2	2719.3	2785.7	2818.9	2706.2	2629.2	2637.5	2674.2	2760.8
47.5°	2104.1	2115.9	2140.8	2169.3	2102.9	2004.5	2030.6	2089.8	2127.8
50°	1671.4	1683.3	1676.1	1672.6	1640.6	1581.3	1618.1	1661.9	1675.0
52.5°	1318.2	1302.7	1289.7	1281.4	1261.3	1237.5	1244.7	1281.4	1301.6
55°	1012.3	1000.5	972.0	960.2	941.2	935.3	938.8	967.3	970.8
57.5°	761.0	744.4	716.0	693.5	694.6	685.2	689.9	710.0	720.7
60°	572.5	561.9	512.1	515.6	499.0	496.7	507.3	519.2	523.9
62.5°	395.9	399.5	361.5	356.8	348.5	349.7	356.8	366.3	367.5
65°	254.9	239.4	226.4	216.9	202.7	195.6	200.3	226.4	218.1
67.5°	99.6	105.5	85.3	99.6	92.5	78.2	90.1	100.8	96.0
70°	54.5	55.7	46.2	43.9	46.2	42.7	48.6	54.5	41.5
72.5°	34.4	34.4	24.9	24.9	32.0	21.3	24.9	39.1	30.8
75°	7.1	8.3	4.7	2.4	14.2	7.1	4.7	14.2	8.3
77.5°	0.0	8.3	0.0	0.0	0.0	0.0	2.4	2.4	2.4
80°	0.0	0.0	0.0	3.6	0.0	0.0	0.0	2.4	2.4
82.5°	0.0	2.4	0.0	0.0	0.0	0.0	0.0	2.4	0.0
85°	2.4	9.5	2.4	0.0	2.4	2.4	1.2	7.1	2.4
87.5°	15.4	7.1	1.2	7.1	5.9	7.1	8.3	7.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)