

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: P247879

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23211.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

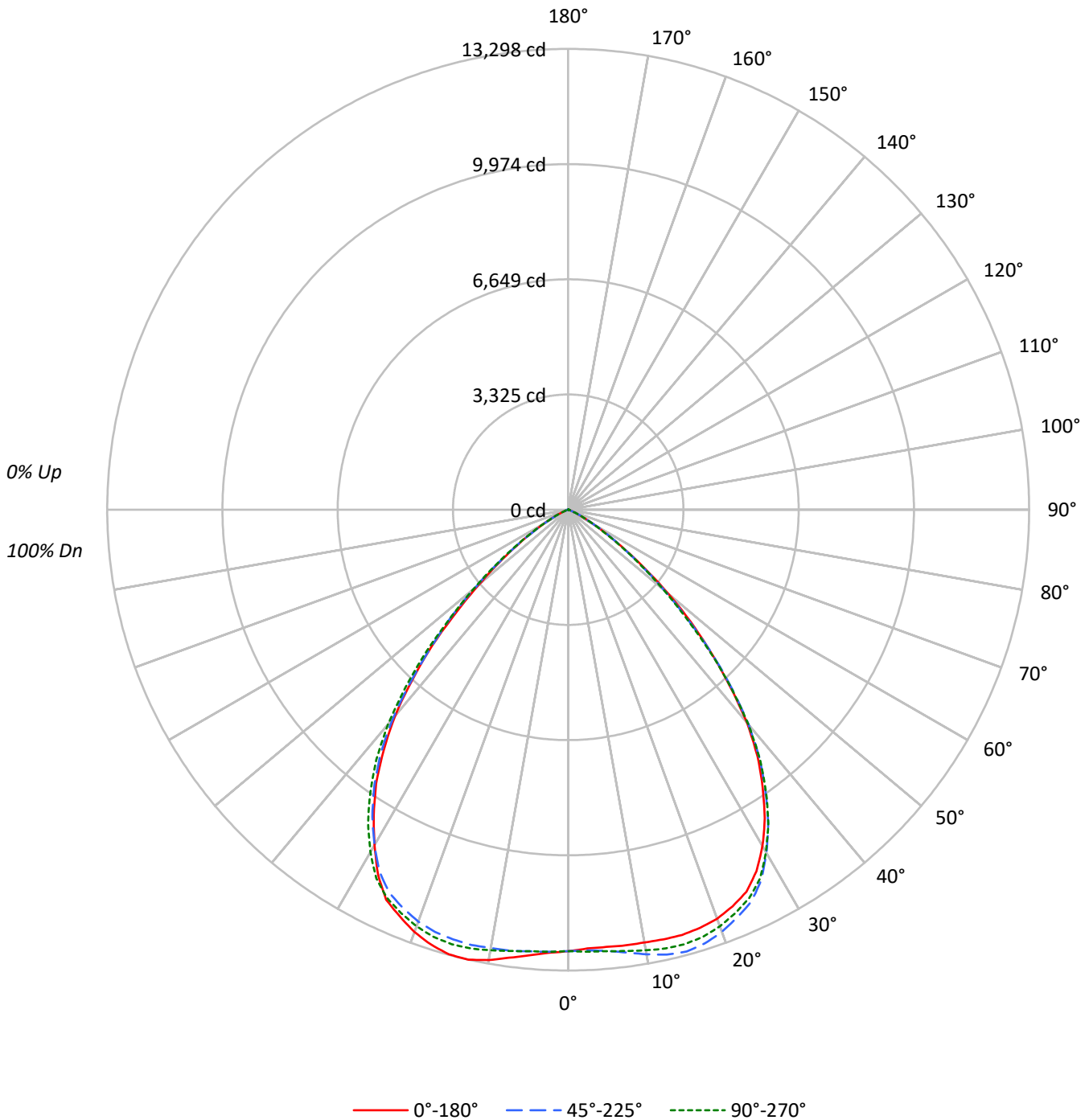
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	392824	392824	392824
5°	392065	395829	399512
10°	396999	404254	413231
15°	405577	414362	424003
20°	412197	419797	425595
25°	413794	420545	422590
30°	399141	406112	397727
35°	368119	374571	363541
40°	322752	325171	312809
45°	253434	251372	241769
50°	180071	171661	159932
55°	107125	103276	96738
60°	53748	51540	51145
65°	22597	21758	22320
70°	8421	7267	7041
75°	3360	3658	3658
80°	3871	2735	906
85°	4069	7713	3184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.1	5.3
10°-20°	3668.1	15.8
20°-30°	5637.4	24.3
30°-40°	6098.6	26.3
40°-50°	4395.8	18.9
50°-60°	1784.3	7.7
60°-70°	356.4	1.5
70°-80°	35.7	0.2
80°-90°	9.6	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°	10530.6	45.4
0°-40°	16629.2	71.6
0°-60°	22809.3	98.3
0°-90°	23211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12739	12739	12739	12739	12739	
5°	12666	12774	12788	12793	12907	###
15°	12704	13197	12980	12835	13282	3590
25°	12162	12486	12360	12202	12420	5559
35°	9779	9922	9950	9747	9657	6072
45°	5812	5840	5764	5571	5544	4483
55°	1993	1931	1921	1856	1799	1869
65°	310	335	298	284	306	369
75°	28	35	31	29	31	37
85°	12	17	22	10	9	10
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°	12739.0	12739.0	12739.0	12739.0	12739.0	12739.0	12739.0	12739.0	12739.0
2.5°	12673.7	12754.4	12727.5	12692.9	12765.9	12751.8	12767.2	12773.6	12797.9
5°	12666.0	12756.9	12773.6	12736.4	12787.6	12763.3	12792.7	12847.8	12906.6
7.5°	12678.8	12815.8	12887.5	12865.7	12841.4	12758.2	12835.0	12961.7	13039.7
10°	12678.8	12860.6	13026.9	13025.7	12910.5	12755.6	12841.4	13060.2	13197.2
12.5°	12699.3	12922.0	13149.8	13165.2	12969.4	12773.6	12865.7	13124.2	13298.3
15°	12704.4	12923.3	13197.2	13204.8	12979.6	12749.2	12835.0	13112.7	13281.6
17.5°	12650.7	12861.9	13121.7	13148.5	12922.0	12687.8	12774.8	13023.1	13157.5
20°	12561.1	12750.5	12961.7	13006.5	12792.7	12570.1	12646.9	12860.6	12969.4
22.5°	12389.6	12562.4	12736.4	12769.7	12598.2	12403.7	12442.1	12608.5	12699.3
25°	12161.8	12333.3	12485.6	12503.5	12360.2	12186.1	12201.5	12328.2	12420.3
27.5°	11757.4	11919.9	12058.2	12079.9	11994.2	11808.6	11780.4	11840.6	11879.0
30°	11209.7	11321.0	11436.2	11505.3	11405.5	11251.9	11172.5	11204.5	11170.0
32.5°	10551.8	10665.7	10736.1	10757.9	10742.5	10608.2	10514.7	10434.1	10439.2
35°	9778.9	9882.5	9922.2	9961.9	9950.3	9845.4	9746.9	9671.3	9657.3
37.5°	8968.7	9037.9	9082.6	9113.4	9087.8	9021.2	8893.2	8762.7	8740.9
40°	8017.9	8122.8	8087.0	8102.3	8078.0	7993.5	7865.6	7791.3	7770.9
42.5°	6901.9	6994.0	6986.4	6991.5	6937.7	6822.5	6711.2	6670.2	6648.5
45°	5811.5	5856.3	5839.7	5785.9	5764.2	5692.5	5570.9	5492.8	5544.0
47.5°	4785.1	4769.8	4658.4	4614.9	4582.9	4593.2	4566.3	4429.3	4355.1
50°	3753.6	3713.9	3607.7	3542.4	3578.3	3606.4	3506.6	3424.7	3333.8
52.5°	2783.5	2791.2	2690.1	2618.4	2651.7	2656.8	2598.0	2551.9	2525.0
55°	1992.6	1992.6	1931.2	1908.2	1921.0	1896.6	1855.7	1840.3	1799.4
57.5°	1355.3	1364.3	1360.4	1333.5	1273.4	1251.6	1228.6	1251.6	1265.7
60°	871.5	893.3	889.5	886.9	835.7	784.5	806.3	826.7	829.3
62.5°	536.2	546.5	564.4	549.0	523.4	482.5	477.4	508.1	536.2
65°	309.7	321.2	335.3	325.1	298.2	291.8	284.1	300.7	305.9
67.5°	176.6	171.5	172.8	165.1	157.4	148.5	149.7	157.4	168.9
70°	93.4	80.6	81.9	74.2	80.6	71.7	69.1	75.5	78.1
72.5°	47.4	46.1	52.5	52.5	56.3	49.9	49.9	47.4	53.8
75°	28.2	32.0	34.6	38.4	30.7	29.4	29.4	29.4	30.7
77.5°	7.7	3.8	5.1	16.6	6.4	12.8	6.4	5.1	11.5
80°	21.8	12.8	7.7	14.1	15.4	7.7	19.2	17.9	5.1
82.5°	7.7	0.0	14.1	15.4	12.8	12.8	15.4	15.4	14.1
85°	11.5	7.7	16.6	19.2	21.8	12.8	10.2	6.4	9.0
87.5°	5.1	0.0	7.7	6.4	3.8	1.3	3.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)