

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: P247777

Luminaire Tested: **LD8B200D010 ER8B200840 8LBWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22647.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

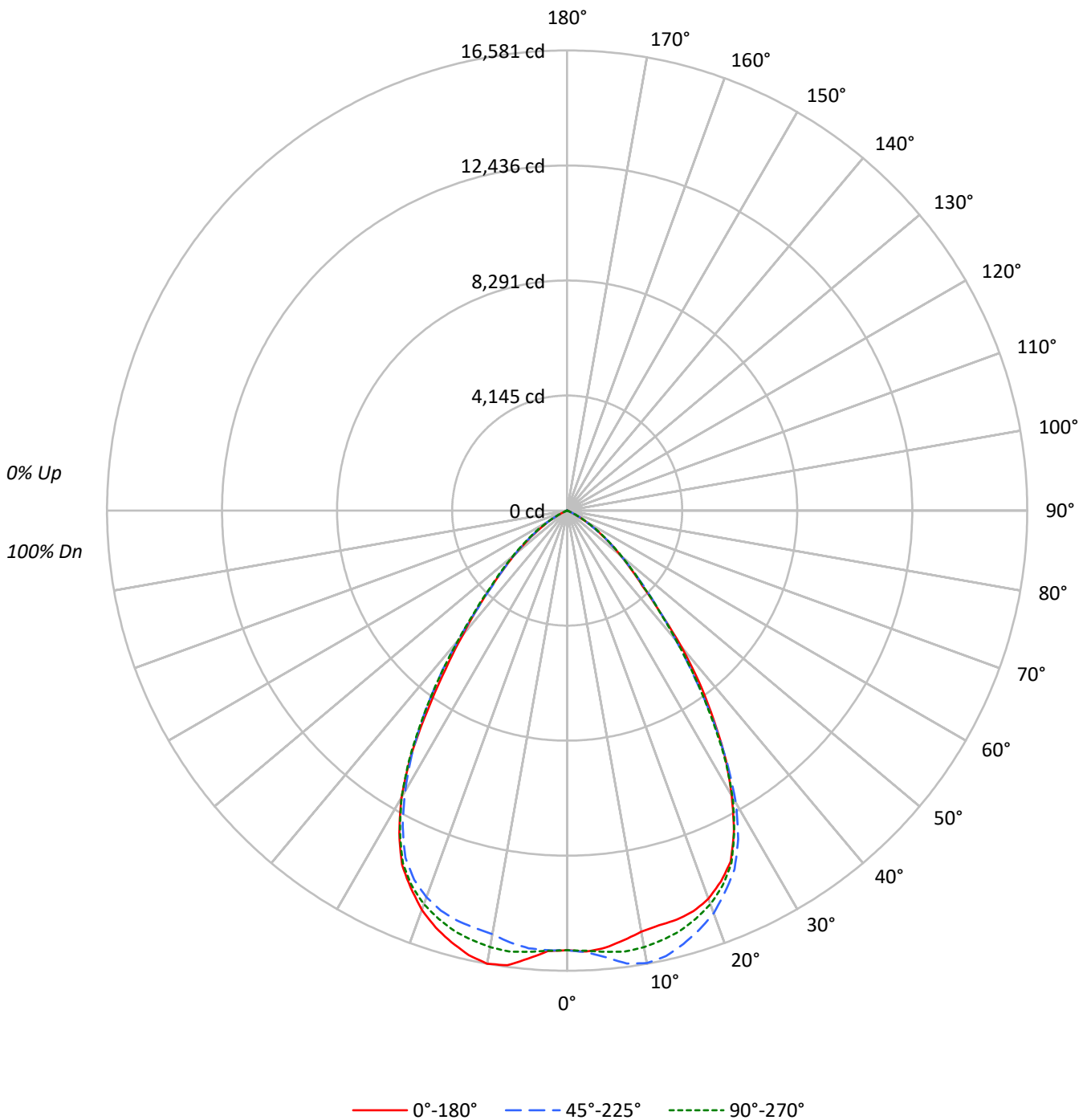
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	488423	488423	488423
5°	489428	494052	501664
10°	482377	500137	519181
15°	487248	500672	514051
20°	488486	495298	502284
25°	474630	476654	479175
30°	422139	424585	424963
35°	346703	339238	328984
40°	257005	246785	235824
45°	167088	171183	165649
50°	120637	122729	117466
55°	80390	82739	75132
60°	45089	48678	42647
65°	14184	17658	14856
70°	3697	4292	3453
75°	2359	1728	2836
80°	462	1403	0
85°	5130	1415	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1526.4	6.7
10°-20°	4420.7	19.5
20°-30°	6340.9	28.0
30°-40°	5595.4	24.7
40°-50°	3098.1	13.7
50°-60°	1365.2	6.0
60°-70°	275.9	1.2
70°-80°	20.7	0.1
80°-90°	3.8	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°	12287.9	54.3
0°-40°	17883.4	79.0
0°-60°	22346.7	98.7
0°-90°	22647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15839	15839	15839	15839	15839	
5°	15811	16159	15961	15831	16207	###
15°	15263	16171	15683	15300	16102	4306
25°	13950	14263	14009	13799	14083	6302
35°	9210	9078	9012	9018	8739	5713
45°	3832	3994	3925	3779	3798	3121
55°	1495	1489	1539	1460	1398	1371
65°	194	209	242	220	204	268
75°	20	20	14	16	24	19
85°	14	8	4	12	5	7
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°	15839.2	15839.2	15839.2	15839.2	15839.2	15839.2	15839.2	15839.2	15839.2
2.5°	15905.3	15839.2	15926.4	15872.2	15876.2	15794.2	15859.0	15921.1	15886.8
5°	15811.4	15872.2	16159.1	16151.2	15960.8	15713.6	15831.2	16114.2	16206.7
7.5°	15617.1	15836.5	16459.3	16516.1	16026.9	15506.0	15697.7	16287.4	16522.7
10°	15405.5	15721.5	16558.4	16669.5	15972.7	15286.5	15503.3	16246.4	16580.9
12.5°	15303.7	15609.1	16443.4	16550.5	15848.4	15180.7	15400.2	16090.4	16401.1
15°	15262.7	15492.8	16171.0	16268.9	15683.2	15121.3	15299.7	15864.3	16102.3
17.5°	15138.4	15297.1	15833.9	15896.0	15421.4	14975.8	15116.0	15548.3	15755.9
20°	14885.9	14991.7	15442.5	15475.6	15093.5	14715.4	14823.8	15164.9	15306.4
22.5°	14469.4	14539.5	14872.7	14884.6	14634.7	14306.8	14396.7	14663.8	14716.7
25°	13949.8	13956.5	14263.2	14206.3	14009.3	13705.2	13799.1	14027.8	14083.4
27.5°	13015.1	13037.6	13348.3	13272.9	13040.2	12775.8	12834.0	13042.9	13098.4
30°	11855.6	11981.2	12161.0	12124.0	11924.3	11658.6	11670.5	11875.4	11934.9
32.5°	10636.6	10599.6	10692.1	10664.3	10561.2	10351.0	10421.1	10473.9	10488.5
35°	9210.0	9179.6	9077.8	8949.5	9011.7	9093.6	9018.3	8901.9	8739.3
37.5°	7838.9	7668.4	7470.1	7336.5	7557.3	7643.3	7569.2	7316.7	7185.8
40°	6384.6	6204.8	6097.7	6064.6	6130.7	6194.2	6110.9	5987.9	5858.4
42.5°	4923.6	4922.3	4948.7	4942.1	4897.2	4806.0	4739.9	4792.7	4771.6
45°	3831.5	3891.0	3994.2	4011.4	3925.4	3791.9	3778.7	3828.9	3798.5
47.5°	3118.9	3140.1	3177.1	3230.0	3181.1	3113.6	3079.3	3095.1	3067.4
50°	2514.7	2520.0	2537.2	2576.8	2558.3	2512.1	2479.0	2459.2	2448.6
52.5°	1975.3	1963.4	1976.6	1989.8	2014.9	1984.5	1956.8	1914.5	1881.4
55°	1495.3	1486.1	1488.7	1499.3	1539.0	1504.6	1459.6	1431.9	1397.5
57.5°	1085.5	1055.1	1061.7	1097.4	1134.4	1119.8	1080.2	1035.2	992.9
60°	731.1	724.5	723.2	761.5	789.3	784.0	739.1	706.0	691.5
62.5°	432.3	428.4	438.9	456.1	489.2	465.4	435.0	417.8	412.5
65°	194.4	203.6	208.9	222.1	242.0	236.7	219.5	201.0	203.6
67.5°	84.6	64.8	72.7	82.0	76.7	80.7	71.4	75.4	72.7
70°	41.0	43.6	41.0	51.6	47.6	50.2	41.0	48.9	38.3
72.5°	29.1	25.1	31.7	37.0	31.7	37.0	33.1	25.1	19.8
75°	19.8	11.9	19.8	11.9	14.5	21.2	15.9	21.2	23.8
77.5°	2.6	9.3	4.0	5.3	2.6	6.6	6.6	4.0	11.9
80°	2.6	4.0	2.6	5.3	7.9	1.3	5.3	11.9	0.0
82.5°	9.3	0.0	1.3	0.0	1.3	2.6	0.0	2.6	0.0
85°	14.5	4.0	7.9	18.5	4.0	7.9	11.9	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.0	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)