

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: P247798

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247798
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 ER8B2009727 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15873.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

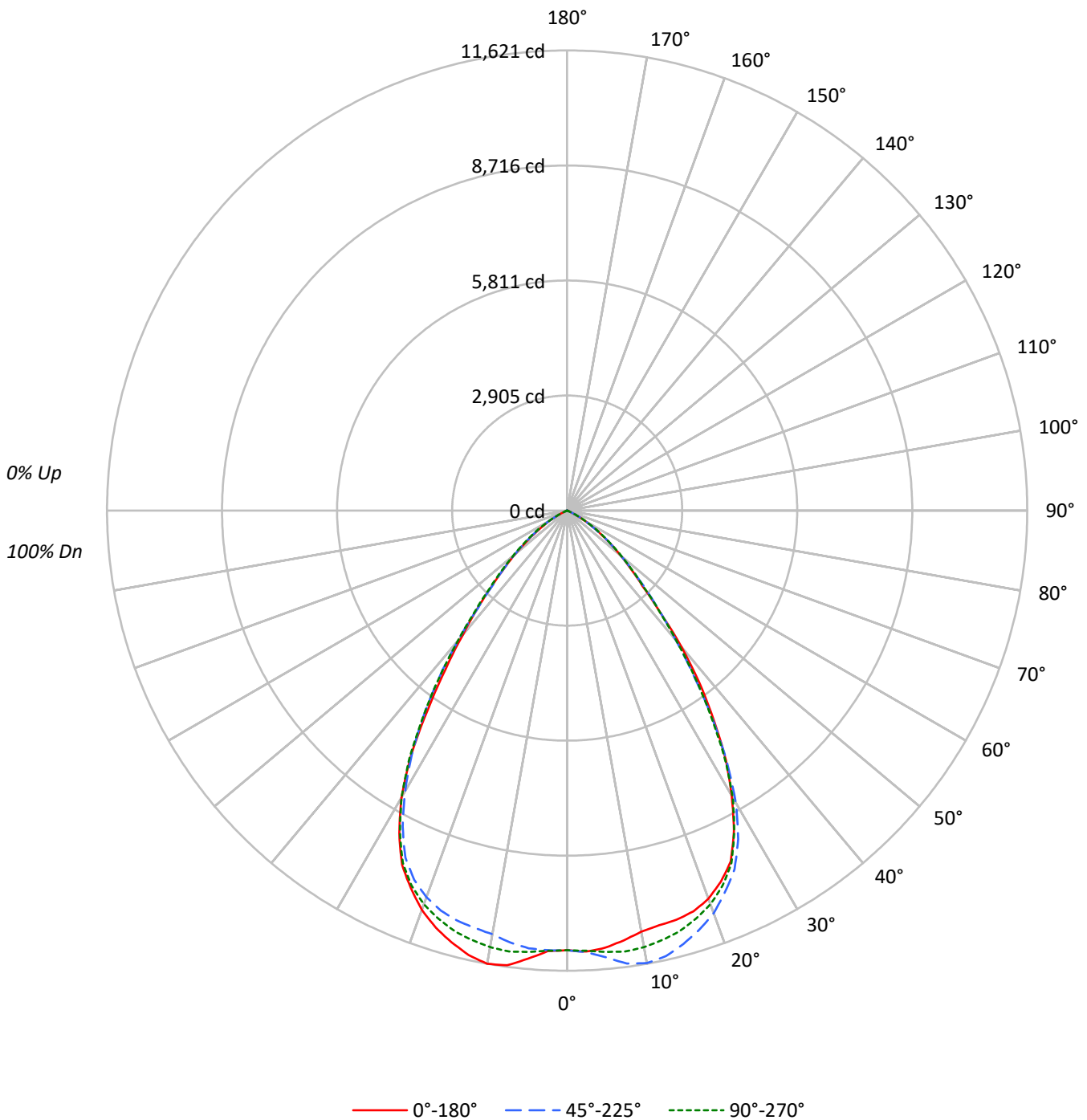
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.8	6.7
10°-20°	3098.4	19.5
20°-30°	4444.2	28.0
30°-40°	3921.8	24.7
40°-50°	2171.4	13.7
50°-60°	956.9	6.0
60°-70°	193.3	1.2
70°-80°	14.5	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°	8612.5	54.3
0°-40°	12534.2	79.0
0°-60°	15662.5	98.7
0°-90°	15873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11102	11102	11102	11102	11102	
5°	11082	11326	11187	11096	11359	###
15°	10698	11334	10992	10723	11286	3018
25°	9777	9997	9819	9672	9871	4417
35°	6455	6362	6316	6321	6125	4004
45°	2686	2800	2751	2648	2662	2187
55°	1048	1043	1079	1023	980	961
65°	136	146	170	154	143	188
75°	14	14	10	11	17	14
85°	10	6	3	8	4	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°	11101.5	11101.5	11101.5	11101.5	11101.5	11101.5	11101.5	11101.5	11101.5
2.5°	11147.8	11101.5	11162.6	11124.6	11127.4	11070.0	11115.4	11158.9	11134.8
5°	11082.0	11124.6	11325.7	11320.2	11186.7	11013.4	11095.9	11294.2	11359.1
7.5°	10945.8	11099.6	11536.1	11575.9	11233.1	10868.0	11002.3	11415.6	11580.6
10°	10797.5	11019.0	11605.6	11683.4	11195.1	10714.1	10866.1	11386.9	11621.3
12.5°	10726.2	10940.2	11525.0	11600.0	11108.0	10640.0	10793.8	11277.5	11495.3
15°	10697.5	10858.7	11334.1	11402.6	10992.1	10598.3	10723.4	11119.1	11285.9
17.5°	10610.3	10721.5	11097.8	11141.3	10808.7	10496.4	10594.6	10897.6	11043.1
20°	10433.4	10507.5	10823.5	10846.6	10578.8	10313.8	10389.8	10628.9	10728.0
22.5°	10141.5	10190.6	10424.1	10432.4	10257.3	10027.5	10090.5	10277.7	10314.7
25°	9777.3	9781.9	9996.9	9957.0	9819.0	9605.8	9671.6	9831.9	9870.9
27.5°	9122.1	9137.9	9355.6	9302.8	9139.7	8954.4	8995.2	9141.6	9180.5
30°	8309.4	8397.5	8523.5	8497.5	8357.6	8171.4	8179.7	8323.3	8365.0
32.5°	7455.0	7429.1	7494.0	7474.5	7402.2	7254.9	7304.0	7341.1	7351.3
35°	6455.2	6433.9	6362.5	6272.6	6316.2	6373.6	6320.8	6239.3	6125.3
37.5°	5494.2	5374.7	5235.7	5142.1	5296.8	5357.1	5305.2	5128.2	5036.4
40°	4474.9	4348.9	4273.8	4250.6	4297.0	4341.4	4283.1	4196.9	4106.1
42.5°	3450.9	3450.0	3468.5	3463.9	3432.4	3368.4	3322.1	3359.2	3344.3
45°	2685.5	2727.2	2799.5	2811.5	2751.3	2657.7	2648.4	2683.6	2662.3
47.5°	2186.0	2200.8	2226.8	2263.8	2229.6	2182.3	2158.2	2169.3	2149.9
50°	1762.5	1766.2	1778.3	1806.1	1793.1	1760.7	1737.5	1723.6	1716.2
52.5°	1384.4	1376.1	1385.4	1394.6	1412.2	1390.9	1371.5	1341.8	1318.6
55°	1048.1	1041.6	1043.4	1050.8	1078.6	1054.5	1023.0	1003.6	979.5
57.5°	760.8	739.5	744.1	769.1	795.1	784.9	757.1	725.6	695.9
60°	512.4	507.8	506.9	533.8	553.2	549.5	518.0	494.8	484.6
62.5°	303.0	300.2	307.7	319.7	342.9	326.2	304.9	292.8	289.1
65°	136.2	142.7	146.4	155.7	169.6	165.9	153.8	140.9	142.7
67.5°	59.3	45.4	51.0	57.5	53.7	56.5	50.0	52.8	51.0
70°	28.7	30.6	28.7	36.1	33.4	35.2	28.7	34.3	26.9
72.5°	20.4	17.6	22.2	25.9	22.2	25.9	23.2	17.6	13.9
75°	13.9	8.3	13.9	8.3	10.2	14.8	11.1	14.8	16.7
77.5°	1.9	6.5	2.8	3.7	1.9	4.6	4.6	2.8	8.3
80°	1.9	2.8	1.9	3.7	5.6	0.9	3.7	8.3	0.0
82.5°	6.5	0.0	0.9	0.0	0.9	1.9	0.0	1.9	0.0
85°	10.2	2.8	5.6	13.0	2.8	5.6	8.3	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)