

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: P248122

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15465.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

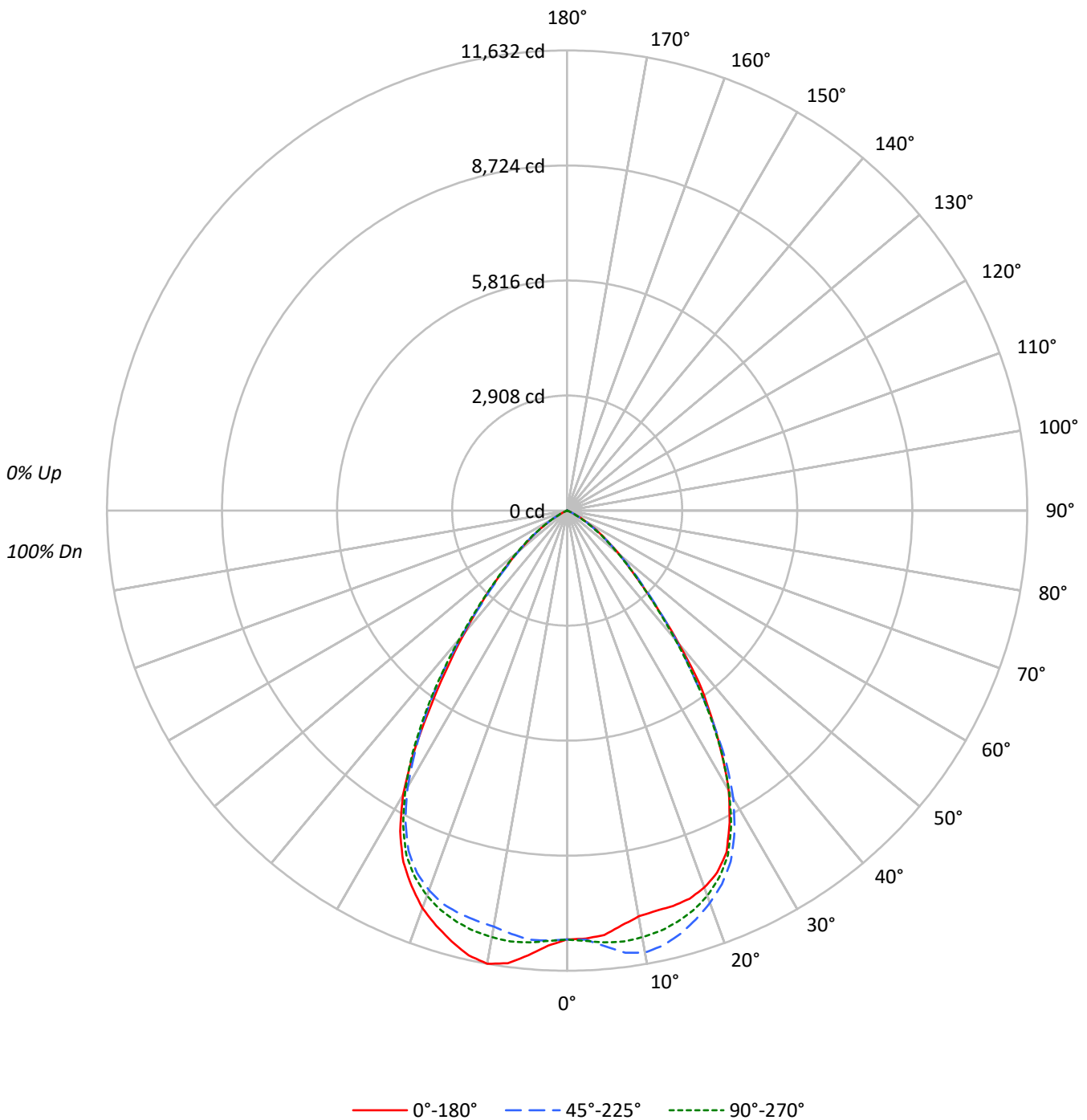
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42			

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°	1048.8	6.8
10°-20°	3041.4	19.7
20°-30°	4367.6	28.2
30°-40°	3860.7	25.0
40°-50°	2113.3	13.7
50°-60°	870.0	5.6
60°-70°	155.9	1.0
70°-80°	6.8	0.0
80°-90°	0.5	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°	8457.7	54.7
0°-40°	12318.5	79.7
0°-60°	15301.8	98.9
0°-90°	15465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15465.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10842	10842	10842	10842	10842	
5°	10768	11058	10957	10890	11284	###
15°	10345	11076	10765	10542	11275	2922
25°	9529	9786	9618	9491	9802	4310
35°	6346	6290	6253	6168	5982	3937
45°	2684	2763	2664	2550	2624	2160
55°	1030	981	937	906	886	933
65°	165	129	119	95	98	192
75°	8	4	5	6	6	13
85°	2	2	0	6	0	1
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°	10841.7	10841.7	10841.7	10841.7	10841.7	10841.7	10841.7	10841.7	10841.7
2.5°	10827.8	10847.2	10856.5	10905.6	10888.9	10865.8	10878.7	10918.6	11004.8
5°	10768.5	10872.3	11057.6	11120.6	10956.6	10813.9	10889.9	11107.6	11283.7
7.5°	10572.9	10834.3	11272.6	11368.0	10988.1	10660.1	10792.6	11262.4	11540.4
10°	10416.3	10740.7	11343.0	11484.8	10950.1	10525.7	10680.4	11255.0	11632.1
12.5°	10363.5	10662.8	11254.0	11414.3	10886.2	10478.4	10614.6	11146.5	11515.3
15°	10345.0	10585.0	11076.1	11204.9	10764.8	10432.1	10542.4	10969.6	11275.3
17.5°	10287.5	10466.4	10832.4	10937.1	10598.0	10340.4	10425.6	10757.4	11002.9
20°	10139.3	10291.3	10554.4	10627.6	10359.8	10157.8	10212.5	10461.8	10695.3
22.5°	9907.6	10005.8	10219.0	10254.2	10042.0	9880.8	9915.0	10101.3	10271.8
25°	9528.6	9597.2	9786.2	9795.5	9617.6	9476.7	9490.6	9646.3	9802.0
27.5°	8891.1	9020.8	9159.8	9199.7	8976.4	8811.4	8854.0	8957.8	9140.4
30°	8167.4	8262.8	8399.1	8368.5	8188.7	8040.4	8058.1	8150.7	8286.9
32.5°	7264.8	7365.9	7435.4	7372.3	7281.5	7149.0	7109.2	7149.0	7186.1
35°	6346.5	6380.8	6290.0	6253.9	6253.0	6212.2	6167.7	6047.2	5982.4
37.5°	5469.9	5362.5	5199.4	5129.9	5209.6	5308.7	5175.3	5017.7	4936.2
40°	4384.9	4387.6	4285.7	4213.4	4243.1	4209.7	4151.3	4050.3	4026.2
42.5°	3427.6	3437.8	3470.3	3429.5	3358.1	3249.7	3217.3	3221.9	3293.3
45°	2684.5	2704.9	2763.2	2757.7	2664.1	2595.5	2550.1	2614.0	2624.2
47.5°	2135.0	2163.7	2187.8	2185.9	2113.7	2045.1	2024.7	2036.8	2061.8
50°	1726.3	1723.5	1705.0	1680.9	1651.3	1637.4	1614.2	1612.4	1612.4
52.5°	1329.7	1334.4	1297.3	1299.1	1285.2	1246.3	1236.1	1215.8	1215.8
55°	1029.5	1011.0	981.3	952.6	936.8	910.0	906.3	884.9	885.9
57.5°	731.1	714.4	679.2	661.6	649.6	642.2	626.4	609.7	602.3
60°	505.0	491.1	471.7	454.1	438.3	434.6	419.8	403.1	399.4
62.5°	304.9	301.2	266.9	260.4	248.3	242.8	232.6	221.5	222.4
65°	164.9	140.8	128.8	121.4	118.6	103.8	95.4	93.6	98.2
67.5°	44.5	44.5	36.1	34.3	34.3	25.0	28.7	27.8	36.1
70°	38.9	27.8	24.1	19.5	22.2	13.0	24.1	19.5	18.5
72.5°	20.4	11.1	9.3	9.3	10.2	6.5	14.8	8.3	6.5
75°	8.3	5.6	3.7	1.9	4.6	4.6	5.6	1.9	5.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	2.8	1.9	0.0	0.0	0.0	5.6	0.0	0.0
87.5°	0.0	1.9	0.9	0.0	0.0	0.0	1.9	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)