

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: P247978

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16335.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

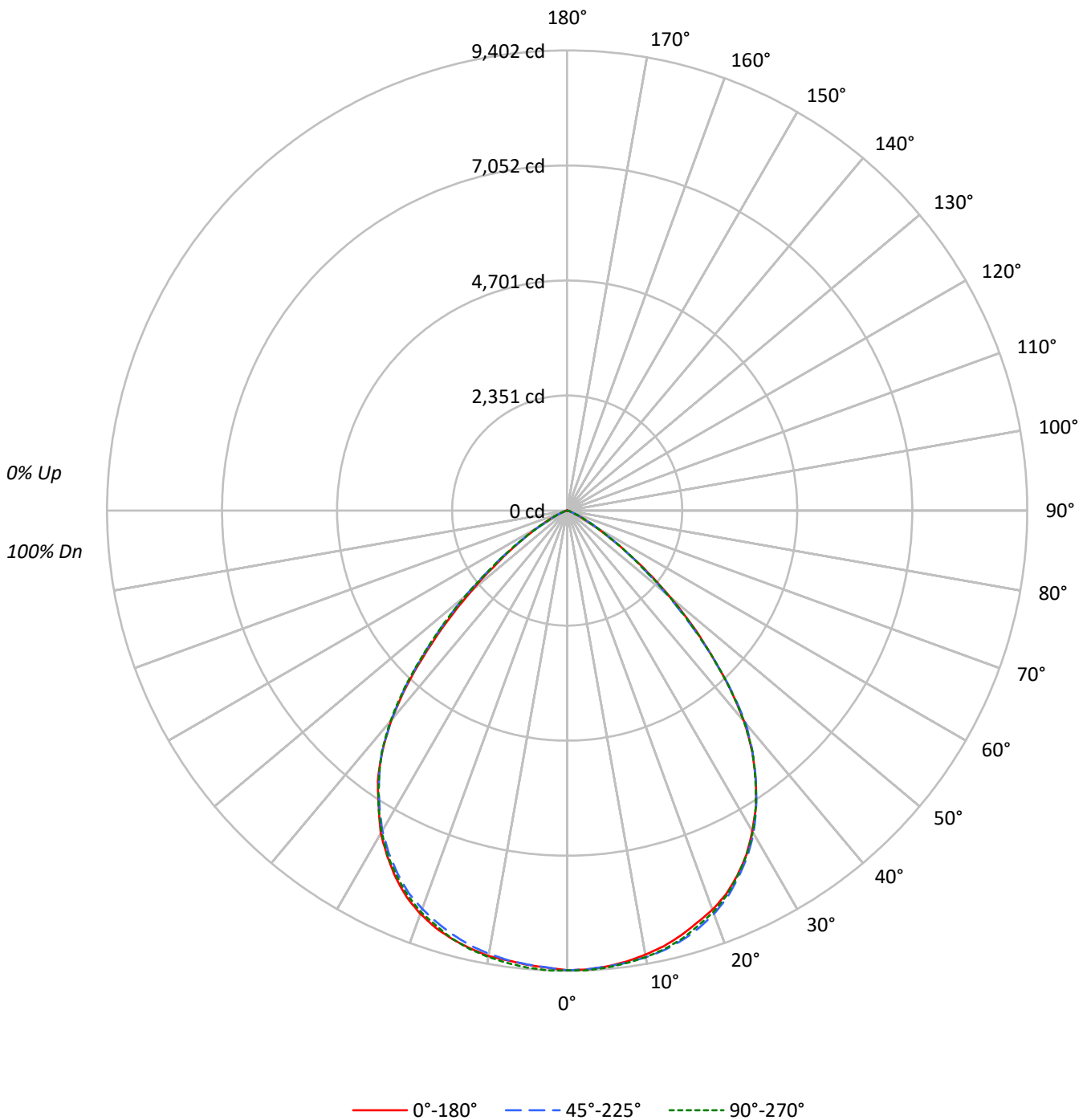
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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°	889.3	5.4
10°-20°	2550.8	15.6
20°-30°	3789.5	23.2
30°-40°	4176.2	25.6
40°-50°	3180.8	19.5
50°-60°	1371.2	8.4
60°-70°	315.0	1.9
70°-80°	52.3	0.3
80°-90°	9.8	0.1
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°	7229.6	44.3
0°-40°	11405.8	69.8
0°-60°	15957.8	97.7
0°-90°	16335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16335.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9393	9393	9393	9393	9393	
5°	9350	9349	9372	9309	9316	888
15°	8986	9086	9058	8978	9065	2535
25°	8228	8274	8237	8189	8284	3776
35°	6717	6721	6705	6700	6744	4171
45°	4152	4144	4152	4129	4047	3203
55°	1492	1491	1481	1490	1413	1391
65°	275	302	286	284	291	308
75°	56	56	56	58	49	52
85°	8	6	6	17	12	8
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°	9392.7	9392.7	9392.7	9392.7	9392.7	9392.7	9392.7	9392.7	9392.7
2.5°	9382.5	9383.4	9376.9	9390.8	9401.9	9365.8	9344.5	9392.7	9346.3
5°	9350.1	9356.5	9349.1	9366.7	9372.3	9342.6	9309.3	9361.2	9315.8
7.5°	9294.5	9307.4	9318.5	9338.9	9324.1	9287.0	9264.8	9326.0	9270.4
10°	9211.1	9243.5	9267.6	9298.2	9262.0	9222.2	9195.3	9278.7	9241.6
12.5°	9117.5	9154.5	9195.3	9232.4	9177.7	9119.3	9105.4	9194.4	9161.0
15°	8985.9	9020.2	9086.0	9121.2	9058.2	8991.4	8977.5	9090.6	9064.6
17.5°	8831.1	8891.4	8947.0	8974.8	8895.1	8837.6	8830.2	8947.0	8936.8
20°	8678.2	8710.7	8768.1	8805.2	8729.2	8660.6	8657.8	8778.3	8768.1
22.5°	8484.5	8513.3	8551.3	8585.6	8514.2	8456.7	8460.5	8559.6	8557.8
25°	8227.9	8247.3	8274.2	8312.2	8237.1	8196.4	8188.9	8294.6	8283.5
27.5°	7928.5	7941.5	7972.1	8004.5	7939.7	7903.5	7890.6	7996.2	7959.1
30°	7564.4	7594.0	7615.3	7629.2	7581.0	7558.8	7549.5	7632.9	7615.3
32.5°	7177.9	7188.1	7189.1	7223.4	7172.4	7140.9	7140.9	7207.6	7167.8
35°	6717.4	6715.5	6721.1	6758.2	6705.3	6716.5	6699.8	6752.6	6744.3
37.5°	6212.4	6220.7	6222.6	6252.2	6222.6	6230.0	6223.5	6231.8	6204.9
40°	5632.3	5668.4	5680.5	5674.9	5617.4	5598.0	5581.3	5611.9	5577.6
42.5°	4912.3	4928.9	4930.8	4934.5	4918.7	4916.0	4895.6	4908.5	4854.8
45°	4152.4	4159.8	4144.0	4141.3	4151.5	4167.2	4129.2	4099.6	4046.7
47.5°	3458.3	3432.4	3361.0	3387.0	3398.1	3437.9	3397.2	3317.5	3273.9
50°	2728.1	2701.2	2646.6	2658.6	2702.2	2762.4	2715.1	2604.9	2546.5
52.5°	2084.1	2053.5	1992.3	2003.4	2016.4	2061.8	2036.8	1961.7	1905.2
55°	1491.9	1470.6	1491.0	1474.3	1480.8	1524.4	1490.1	1428.0	1413.2
57.5°	1008.2	1020.3	1036.9	1039.7	1026.7	1013.8	1009.1	985.0	998.0
60°	668.1	677.4	705.2	713.5	694.1	666.3	671.8	671.8	683.9
62.5°	431.8	440.2	472.6	478.2	450.4	442.9	442.9	440.2	462.4
65°	275.2	291.9	302.1	287.3	286.3	276.1	284.5	284.5	291.0
67.5°	164.9	150.1	160.3	166.8	160.3	152.0	150.1	151.0	160.3
70°	95.4	91.7	98.2	94.5	98.2	85.3	95.4	90.8	93.6
72.5°	61.2	60.2	60.2	63.9	60.2	58.4	62.1	53.7	59.3
75°	56.5	56.5	56.5	49.1	56.5	54.7	57.5	43.6	49.1
77.5°	22.2	25.9	31.5	30.6	30.6	28.7	25.9	22.2	34.3
80°	20.4	18.5	25.0	29.7	18.5	22.2	25.0	15.8	16.7
82.5°	10.2	9.3	12.0	12.0	12.0	6.5	16.7	10.2	8.3
85°	8.3	3.7	5.6	5.6	5.6	7.4	16.7	4.6	12.0
87.5°	1.9	2.8	4.6	4.6	5.6	9.3	16.7	3.7	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)