

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: P247834

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13905.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

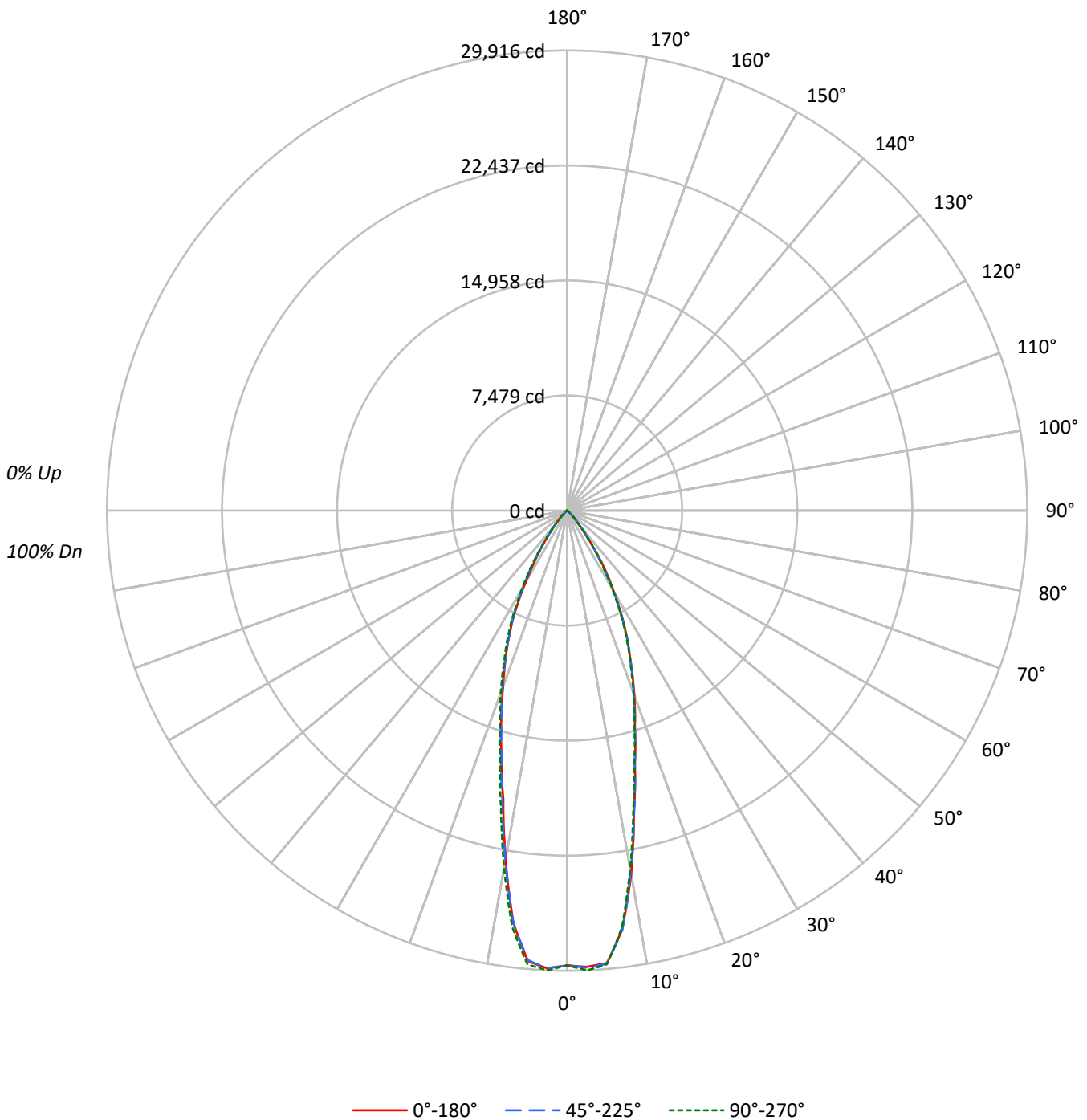
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85	85		
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80	80	80		
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76	76		
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65	65		
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62	62	62		
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	60	60	60	60		

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°	2613.2	18.8
10°-20°	4735.5	34.1
20°-30°	4126.2	29.7
30°-40°	1965.3	14.1
40°-50°	408.4	2.9
50°-60°	32.5	0.2
60°-70°	12.6	0.1
70°-80°	5.6	0.0
80°-90°	5.8	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°	11474.9	82.5
0°-40°	13440.2	96.7
0°-60°	13881.0	99.8
0°-90°	13905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13905.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29564	29564	29564	29564	29564	
5°	29530	29578	29608	29330	29398	###
15°	17036	17038	16862	16513	16474	4811
25°	9260	9250	9149	8874	8844	4209
35°	3228	3119	3090	2934	2829	2067
45°	462	512	474	425	439	408
55°	32	25	24	22	17	35
65°	8	14	18	6	4	12
75°	16	10	9	11	6	7
85°	6	6	10	6	14	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°	29564.5	29564.5	29564.5	29564.5	29564.5	29564.5	29564.5	29564.5	29564.5
2.5°	29693.3	29698.8	29745.2	29877.7	29915.7	29886.0	29785.9	29749.8	29785.9
5°	29530.2	29510.7	29577.5	29675.7	29608.0	29486.7	29330.1	29293.9	29397.7
7.5°	27439.8	27426.8	27489.8	27482.4	27303.6	27074.7	26944.0	26841.2	26930.1
10°	23970.5	23854.7	23813.0	23886.2	23591.5	23275.6	23087.5	23157.0	23004.1
12.5°	20064.9	20049.1	20123.2	20033.4	19862.9	19669.2	19438.5	19314.3	19203.1
15°	17035.8	17077.5	17037.6	17000.6	16862.5	16717.0	16513.2	16427.0	16474.2
17.5°	14658.1	14646.0	14604.3	14666.4	14559.9	14351.4	14172.5	14203.1	14255.0
20°	12785.4	12734.4	12636.2	12662.2	12611.2	12449.0	12286.0	12176.6	12195.1
22.5°	10855.3	10899.7	10887.7	10810.8	10731.1	10612.5	10532.8	10390.1	10456.8
25°	9259.6	9267.0	9250.4	9239.2	9149.4	9035.4	8874.2	8839.9	8844.5
27.5°	7626.9	7662.2	7648.3	7601.0	7510.2	7414.8	7314.7	7235.9	7228.5
30°	6037.8	6087.8	5988.7	5921.1	5869.2	5852.5	5684.8	5567.1	5410.5
32.5°	4672.0	4597.8	4281.9	4282.8	4383.8	4423.6	4263.3	3996.5	3952.9
35°	3228.3	3215.3	3119.0	3089.3	3090.3	3051.3	2933.7	2829.9	2828.9
37.5°	2023.7	2071.9	2125.6	2113.6	1995.0	1874.5	1818.0	1879.2	1896.8
40°	1214.8	1277.8	1342.7	1350.1	1263.0	1124.0	1106.4	1162.9	1215.7
42.5°	760.7	787.6	831.2	839.5	777.4	726.5	694.0	734.8	734.8
45°	462.4	487.4	511.5	513.3	474.4	431.8	425.3	441.1	439.2
47.5°	272.4	273.4	282.6	276.1	263.2	242.8	234.4	242.8	244.6
50°	127.9	125.1	129.7	141.8	126.0	106.6	108.4	101.9	91.7
52.5°	30.6	27.8	33.4	36.1	35.2	37.1	35.2	35.2	26.9
55°	32.4	20.4	25.0	25.9	24.1	25.9	22.2	14.8	16.7
57.5°	22.2	23.2	23.2	25.9	22.2	27.8	23.2	16.7	18.5
60°	22.2	15.8	14.8	25.0	20.4	13.9	15.8	21.3	5.6
62.5°	16.7	15.8	17.6	25.0	17.6	20.4	15.8	25.0	16.7
65°	8.3	13.9	13.9	13.9	17.6	15.8	5.6	11.1	3.7
67.5°	12.0	6.5	5.6	12.0	14.8	10.2	4.6	4.6	8.3
70°	3.7	5.6	2.8	6.5	7.4	6.5	4.6	0.9	0.0
72.5°	6.5	2.8	6.5	5.6	9.3	6.5	5.6	4.6	3.7
75°	15.8	12.0	10.2	11.1	9.3	5.6	11.1	11.1	6.5
77.5°	0.0	0.0	1.9	0.0	0.0	0.0	0.9	0.0	0.0
80°	8.3	6.5	6.5	6.5	3.7	5.6	2.8	0.9	10.2
82.5°	8.3	10.2	10.2	4.6	12.0	7.4	6.5	1.9	10.2
85°	5.6	10.2	5.6	4.6	10.2	8.3	6.5	2.8	13.9
87.5°	0.0	5.6	5.6	3.7	5.6	1.9	4.6	2.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)