

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: P247833

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247833
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: LD8B175D010 ER8B1759727 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: 11797.0 lumens
Efficiency: N/A
Efficacy: 66.6 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

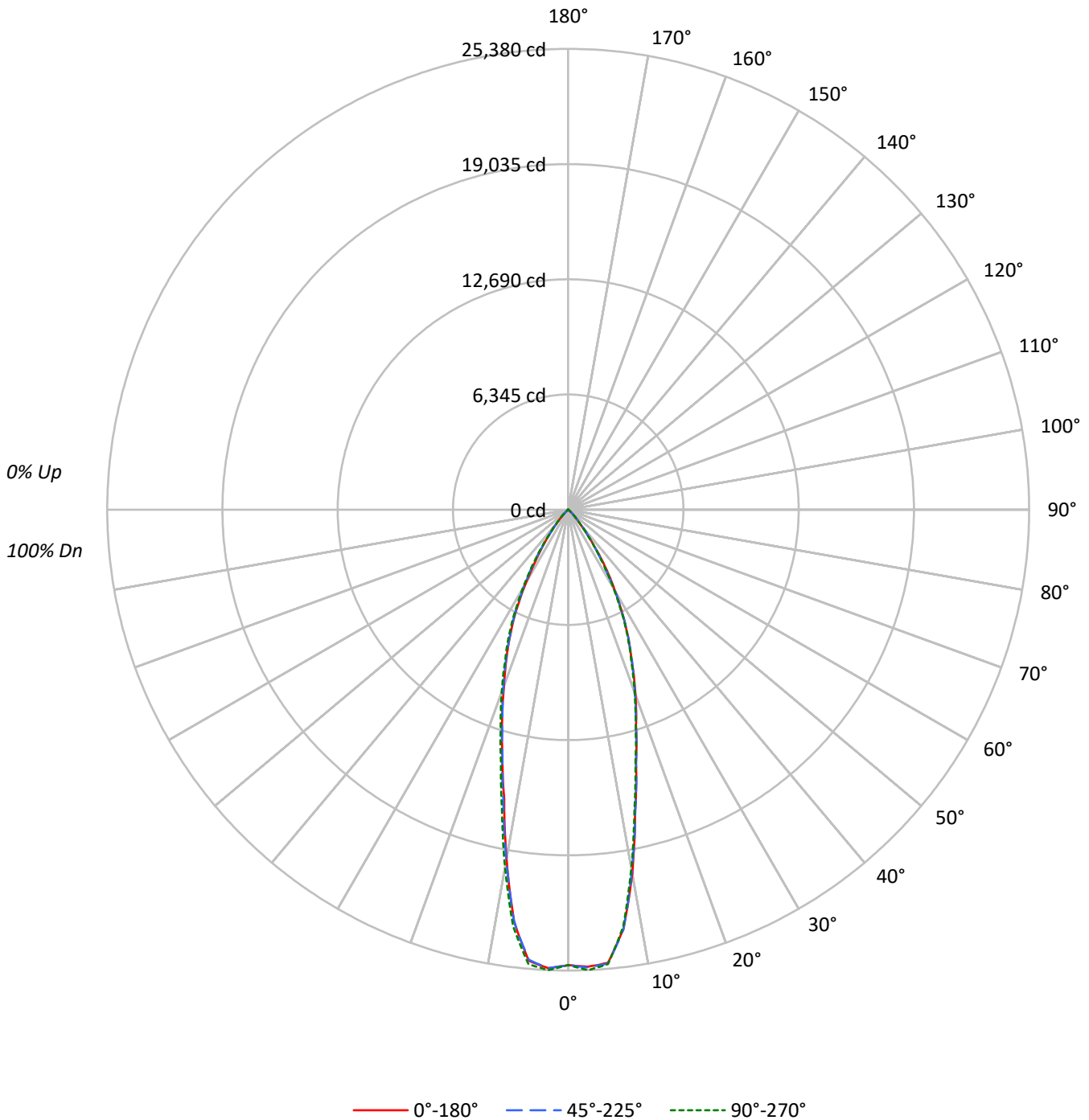
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	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			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	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			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	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			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	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			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	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			

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°	2217.1	18.8
10°-20°	4017.6	34.1
20°-30°	3500.6	29.7
30°-40°	1667.4	14.1
40°-50°	346.5	2.9
50°-60°	27.6	0.2
60°-70°	10.7	0.1
70°-80°	4.7	0.0
80°-90°	4.9	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°	9735.3	82.5
0°-40°	11402.7	96.7
0°-60°	11776.7	99.8
0°-90°	11797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25082	25082	25082	25082	25082	
5°	25053	25094	25120	24884	24941	###
15°	14453	14455	14306	14010	13977	4082
25°	7856	7848	7762	7529	7504	3571
35°	2739	2646	2622	2489	2400	1753
45°	392	434	402	361	373	347
55°	28	21	20	19	14	30
65°	7	12	15	5	3	10
75°	13	9	8	9	6	6
85°	5	5	9	6	12	4
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°	25082.5	25082.5	25082.5	25082.5	25082.5	25082.5	25082.5	25082.5	25082.5
2.5°	25191.8	25196.5	25235.8	25348.2	25380.5	25355.3	25270.4	25239.7	25270.4
5°	25053.4	25036.9	25093.5	25176.8	25119.5	25016.5	24883.6	24853.0	24941.0
7.5°	23279.9	23268.9	23322.3	23316.1	23164.3	22970.2	22859.3	22772.0	22847.5
10°	20336.6	20238.3	20203.0	20265.1	20015.1	19747.0	19587.4	19646.4	19516.7
12.5°	17023.0	17009.7	17072.6	16996.3	16851.6	16687.3	16491.6	16386.3	16291.9
15°	14453.1	14488.5	14454.7	14423.3	14306.1	14182.7	14009.8	13936.6	13976.7
17.5°	12435.9	12425.7	12390.3	12443.0	12352.6	12175.7	12024.0	12049.9	12093.9
20°	10847.1	10803.9	10720.6	10742.6	10699.3	10561.8	10423.4	10330.6	10346.4
22.5°	9209.6	9247.3	9237.1	9171.9	9104.3	9003.6	8936.0	8815.0	8871.6
25°	7855.9	7862.2	7848.0	7838.6	7762.3	7665.6	7528.8	7499.8	7503.7
27.5°	6470.7	6500.6	6488.8	6448.7	6371.6	6290.7	6205.8	6138.9	6132.7
30°	5122.5	5164.9	5080.8	5023.4	4979.4	4965.2	4823.0	4723.1	4590.3
32.5°	3963.7	3900.8	3632.7	3633.5	3719.2	3753.0	3617.0	3390.6	3353.7
35°	2738.9	2727.9	2646.1	2621.0	2621.8	2588.8	2488.9	2400.9	2400.1
37.5°	1716.9	1757.8	1803.4	1793.2	1692.6	1590.4	1542.4	1594.3	1609.2
40°	1030.6	1084.1	1139.1	1145.4	1071.5	953.6	938.6	986.6	1031.4
42.5°	645.4	668.2	705.2	712.2	659.6	616.3	588.8	623.4	623.4
45°	392.3	413.5	433.9	435.5	402.5	366.3	360.8	374.2	372.6
47.5°	231.1	231.9	239.8	234.3	223.3	206.0	198.9	206.0	207.5
50°	108.5	106.1	110.1	120.3	106.9	90.4	92.0	86.5	77.8
52.5°	25.9	23.6	28.3	30.7	29.9	31.4	29.9	29.9	22.8
55°	27.5	17.3	21.2	22.0	20.4	22.0	18.9	12.6	14.2
57.5°	18.9	19.7	19.7	22.0	18.9	23.6	19.7	14.2	15.7
60°	18.9	13.4	12.6	21.2	17.3	11.8	13.4	18.1	4.7
62.5°	14.2	13.4	14.9	21.2	14.9	17.3	13.4	21.2	14.2
65°	7.1	11.8	11.8	11.8	14.9	13.4	4.7	9.4	3.1
67.5°	10.2	5.5	4.7	10.2	12.6	8.6	3.9	3.9	7.1
70°	3.1	4.7	2.4	5.5	6.3	5.5	3.9	0.8	0.0
72.5°	5.5	2.4	5.5	4.7	7.9	5.5	4.7	3.9	3.1
75°	13.4	10.2	8.6	9.4	7.9	4.7	9.4	9.4	5.5
77.5°	0.0	0.0	1.6	0.0	0.0	0.0	0.8	0.0	0.0
80°	7.1	5.5	5.5	5.5	3.1	4.7	2.4	0.8	8.6
82.5°	7.1	8.6	8.6	3.9	10.2	6.3	5.5	1.6	8.6
85°	4.7	8.6	4.7	3.9	8.6	7.1	5.5	2.4	11.8
87.5°	0.0	4.7	4.7	3.1	4.7	1.6	3.9	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)