

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: P247836

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247836
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 ER8B1759730 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12481.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

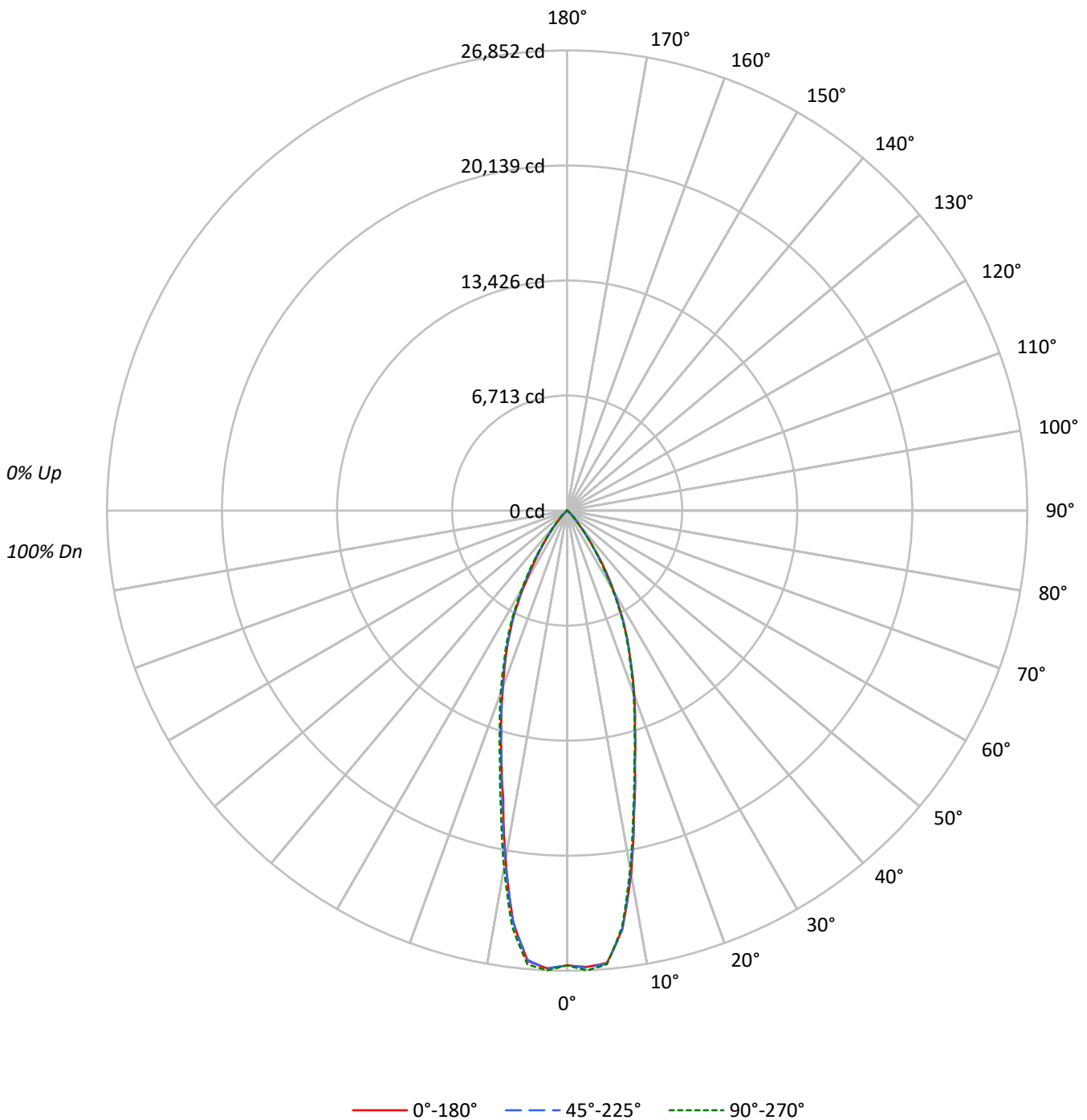
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	106	106	106	106	102	102	102	102	100	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	102	101	99	99	98	97	97	97	95	95		
2	109	105	101	98	107	103	100	97	100	97	95	95	97	95	93	93	94	93	91	91	90	90		
3	105	99	95	91	103	98	94	90	95	92	89	89	93	90	88	88	90	88	86	86	85	85		
4	100	94	89	85	98	92	88	84	90	87	83	83	88	85	83	83	87	84	82	82	80	80		
5	96	89	83	80	94	88	83	79	86	82	79	79	84	81	78	78	83	80	77	77	76	76		
6	92	84	79	75	91	83	78	75	82	78	74	74	81	77	74	74	79	76	73	73	72	72		
7	88	80	75	71	87	79	74	71	78	74	71	71	77	73	70	70	76	73	70	70	69	69		
8	85	76	71	67	84	76	71	67	75	70	67	67	74	70	67	67	73	69	67	67	65	65		
9	81	73	68	64	80	72	67	64	72	67	64	64	71	67	64	64	70	66	63	63	62	62		
10	78	70	65	61	77	69	64	61	69	64	61	61	68	64	61	61	67	63	61	61	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°	2345.6	18.8
10°-20°	4250.5	34.1
20°-30°	3703.6	29.7
30°-40°	1764.1	14.1
40°-50°	366.6	2.9
50°-60°	29.1	0.2
60°-70°	11.3	0.1
70°-80°	5.0	0.0
80°-90°	5.2	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°	10299.7	82.5
0°-40°	12063.8	96.7
0°-60°	12459.5	99.8
0°-90°	12481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26537	26537	26537	26537	26537	
5°	26506	26548	26576	26326	26387	###
15°	15291	15293	15136	14822	14787	4318
25°	8311	8303	8212	7965	7939	3778
35°	2898	2800	2774	2633	2539	1855
45°	415	459	426	382	394	367
55°	29	22	22	20	15	32
65°	8	12	16	5	3	11
75°	14	9	8	10	6	7
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°	26536.8	26536.8	26536.8	26536.8	26536.8	26536.8	26536.8	26536.8	26536.8
2.5°	26652.4	26657.4	26699.0	26817.9	26852.0	26825.4	26735.6	26703.2	26735.6
5°	26506.0	26488.6	26548.5	26636.6	26575.9	26466.9	26326.4	26293.9	26387.1
7.5°	24629.7	24618.0	24674.6	24667.9	24507.4	24302.0	24184.7	24092.4	24172.2
10°	21515.7	21411.8	21374.3	21440.0	21175.6	20891.9	20723.1	20785.5	20648.2
12.5°	18010.0	17995.9	18062.4	17981.8	17828.7	17654.9	17447.8	17336.3	17236.5
15°	15291.1	15328.6	15292.8	15259.5	15135.6	15005.0	14822.1	14744.7	14787.1
17.5°	13157.0	13146.1	13108.7	13164.4	13068.8	12881.7	12721.1	12748.6	12795.2
20°	11476.1	11430.3	11342.1	11365.4	11319.7	11174.1	11027.8	10929.6	10946.2
22.5°	9743.6	9783.5	9772.7	9703.7	9632.1	9525.7	9454.1	9326.1	9385.9
25°	8311.4	8318.0	8303.0	8293.1	8212.4	8110.1	7965.4	7934.6	7938.8
27.5°	6845.9	6877.5	6865.0	6822.6	6741.1	6655.4	6565.6	6494.9	6488.2
30°	5419.5	5464.4	5375.4	5314.7	5268.1	5253.1	5102.6	4997.0	4856.4
32.5°	4193.5	4127.0	3843.4	3844.2	3934.9	3970.6	3826.7	3587.2	3548.1
35°	2897.7	2886.1	2799.6	2772.9	2773.8	2738.8	2633.2	2540.1	2539.2
37.5°	1816.5	1859.7	1908.0	1897.1	1790.7	1682.6	1631.8	1686.7	1702.5
40°	1090.4	1146.9	1205.2	1211.8	1133.6	1008.9	993.1	1043.8	1091.2
42.5°	682.8	707.0	746.1	753.5	697.8	652.1	623.0	659.6	659.6
45°	415.0	437.5	459.1	460.8	425.8	387.6	381.8	395.9	394.2
47.5°	244.5	245.4	253.7	247.9	236.2	217.9	210.4	217.9	219.6
50°	114.8	112.3	116.4	127.3	113.1	95.6	97.3	91.5	82.3
52.5°	27.4	25.0	29.9	32.4	31.6	33.3	31.6	31.6	24.1
55°	29.1	18.3	22.5	23.3	21.6	23.3	20.0	13.3	15.0
57.5°	20.0	20.8	20.8	23.3	20.0	25.0	20.8	15.0	16.6
60°	20.0	14.1	13.3	22.5	18.3	12.5	14.1	19.1	5.0
62.5°	15.0	14.1	15.8	22.5	15.8	18.3	14.1	22.5	15.0
65°	7.5	12.5	12.5	12.5	15.8	14.1	5.0	10.0	3.3
67.5°	10.8	5.8	5.0	10.8	13.3	9.1	4.2	4.2	7.5
70°	3.3	5.0	2.5	5.8	6.7	5.8	4.2	0.8	0.0
72.5°	5.8	2.5	5.8	5.0	8.3	5.8	5.0	4.2	3.3
75°	14.1	10.8	9.1	10.0	8.3	5.0	10.0	10.0	5.8
77.5°	0.0	0.0	1.7	0.0	0.0	0.0	0.8	0.0	0.0
80°	7.5	5.8	5.8	5.8	3.3	5.0	2.5	0.8	9.1
82.5°	7.5	9.1	9.1	4.2	10.8	6.7	5.8	1.7	9.1
85°	5.0	9.1	5.0	4.2	9.1	7.5	5.8	2.5	12.5
87.5°	0.0	5.0	5.0	3.3	5.0	1.7	4.2	2.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)