

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: P247944

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13530.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

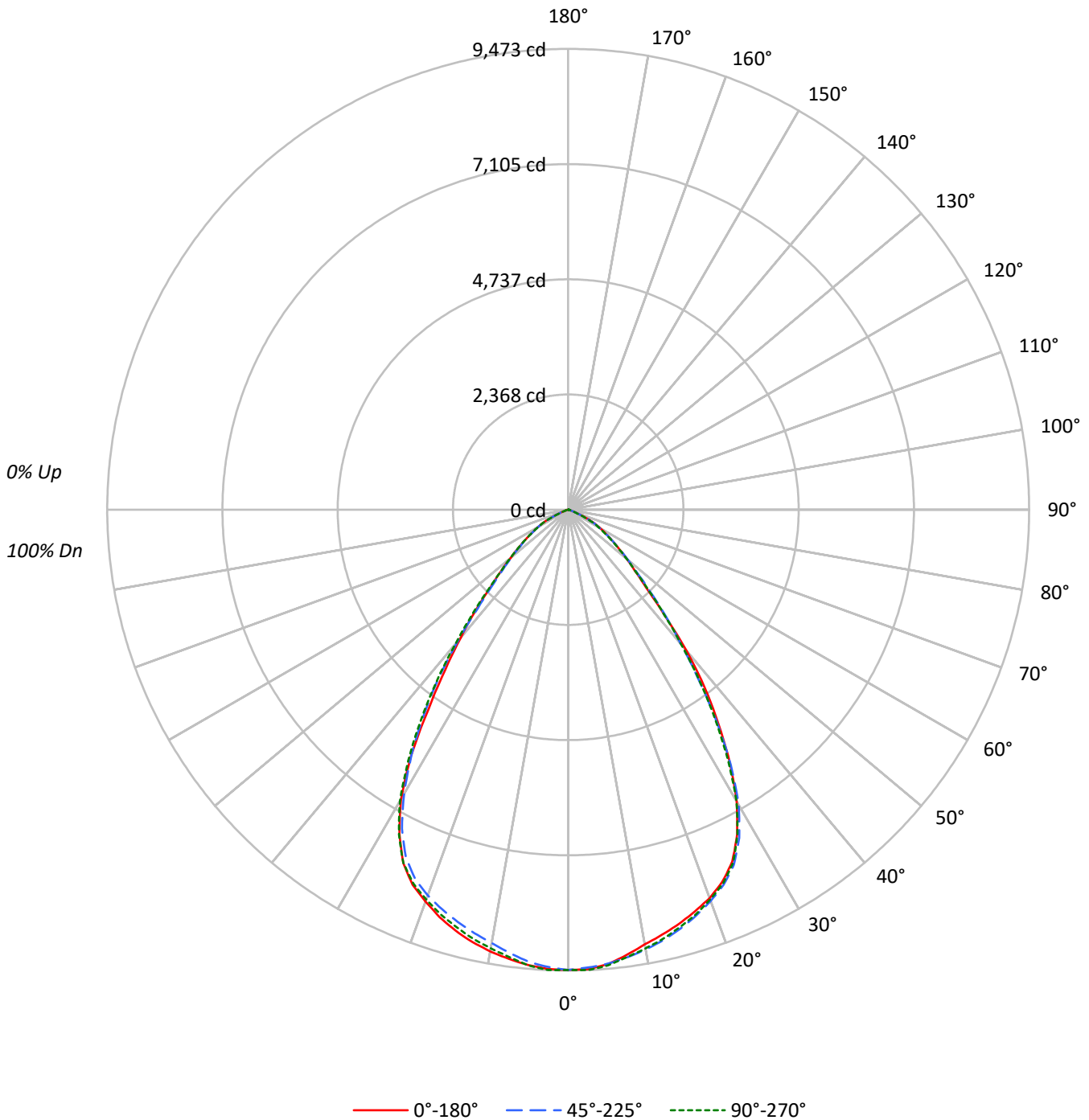
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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°	886.2	6.5
10°-20°	2498.4	18.5
20°-30°	3622.2	26.8
30°-40°	3255.9	24.1
40°-50°	1834.7	13.6
50°-60°	977.6	7.2
60°-70°	390.7	2.9
70°-80°	52.0	0.4
80°-90°	12.3	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°	7006.8	51.8
0°-40°	10262.7	75.9
0°-60°	13075.0	96.6
0°-90°	13530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9461	9461	9461	9461	9461	
5°	9376	9368	9403	9329	9398	885
15°	8810	8912	8881	8771	8955	2486
25°	7980	8055	8011	7887	8018	3622
35°	5390	5313	5270	5196	5006	3344
45°	2253	2375	2312	2203	2260	1851
55°	1096	1100	1076	1051	1067	999
65°	422	402	373	362	377	417
75°	33	42	41	40	33	49
85°	2	10	5	14	3	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°	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3
2.5°	9454.6	9434.7	9419.7	9448.0	9472.9	9404.7	9409.7	9439.7	9449.7
5°	9376.5	9358.2	9368.2	9391.4	9403.1	9317.4	9329.1	9379.8	9398.1
7.5°	9230.1	9244.2	9280.0	9309.9	9275.0	9174.4	9191.0	9278.3	9314.1
10°	9071.2	9104.5	9179.4	9214.3	9155.2	9026.3	9045.5	9162.7	9219.3
12.5°	8944.8	8981.4	9059.6	9086.2	9033.8	8894.9	8914.9	9036.3	9103.7
15°	8810.1	8843.4	8912.4	8934.0	8880.8	8752.7	8771.0	8887.4	8954.8
17.5°	8657.9	8687.0	8748.5	8768.5	8721.9	8586.4	8615.5	8723.6	8782.6
20°	8497.4	8518.2	8561.4	8573.1	8528.1	8425.8	8439.2	8532.3	8570.6
22.5°	8278.6	8305.3	8345.2	8357.6	8316.1	8203.8	8216.3	8307.7	8349.3
25°	7980.1	8019.2	8054.9	8070.7	8010.8	7862.0	7886.9	7965.1	8017.5
27.5°	7516.8	7548.4	7611.6	7613.3	7530.9	7376.3	7397.0	7497.7	7511.0
30°	6921.3	6950.4	7006.2	6993.7	6914.7	6730.9	6747.5	6845.6	6868.1
32.5°	6191.9	6202.7	6217.7	6213.6	6117.1	6030.6	5996.5	6008.1	6016.4
35°	5390.2	5409.3	5312.8	5260.4	5269.6	5277.1	5196.4	5076.6	5005.9
37.5°	4613.4	4521.9	4403.0	4362.2	4437.9	4462.8	4389.7	4210.8	4145.1
40°	3769.2	3687.7	3593.7	3601.2	3599.6	3617.0	3524.7	3459.0	3436.5
42.5°	2900.9	2901.8	2963.3	2920.9	2912.6	2791.2	2755.4	2792.0	2831.9
45°	2253.0	2327.9	2375.3	2362.8	2312.1	2203.1	2203.1	2267.2	2259.7
47.5°	1854.7	1881.3	1917.0	1914.5	1878.0	1798.1	1811.4	1855.5	1878.0
50°	1567.7	1579.4	1596.0	1581.9	1559.4	1509.5	1508.7	1539.5	1552.8
52.5°	1311.6	1318.2	1314.1	1306.6	1294.1	1267.5	1259.2	1285.0	1288.3
55°	1096.2	1108.6	1099.5	1078.7	1076.2	1052.1	1051.3	1072.0	1067.1
57.5°	913.2	900.7	888.2	870.8	868.3	860.8	869.1	872.4	867.5
60°	760.2	761.0	736.9	720.2	718.6	707.8	719.4	728.6	728.6
62.5°	612.1	608.8	593.8	568.9	573.0	568.9	573.9	575.5	568.0
65°	421.7	422.5	401.7	371.8	372.6	369.3	361.8	373.4	376.8
67.5°	224.6	222.9	207.1	196.3	192.1	193.8	202.1	204.6	195.4
70°	122.3	118.1	121.4	109.8	112.3	108.1	112.3	118.9	116.4
72.5°	62.4	66.5	59.9	54.9	61.5	60.7	70.7	64.9	58.2
75°	33.3	35.8	42.4	39.1	40.8	39.1	39.9	37.4	33.3
77.5°	24.1	26.6	30.8	29.9	29.1	27.4	30.8	34.1	27.4
80°	14.1	17.5	19.1	22.5	20.0	22.5	25.8	20.8	16.6
82.5°	9.1	14.1	14.1	15.0	21.6	14.1	23.3	20.8	16.6
85°	1.7	2.5	10.0	5.8	5.0	15.0	14.1	10.8	3.3
87.5°	0.0	5.8	13.3	6.7	10.8	10.0	14.1	15.0	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)