

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: P248055

Luminaire Tested: **LD8B175D010 ER8B175827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18340.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

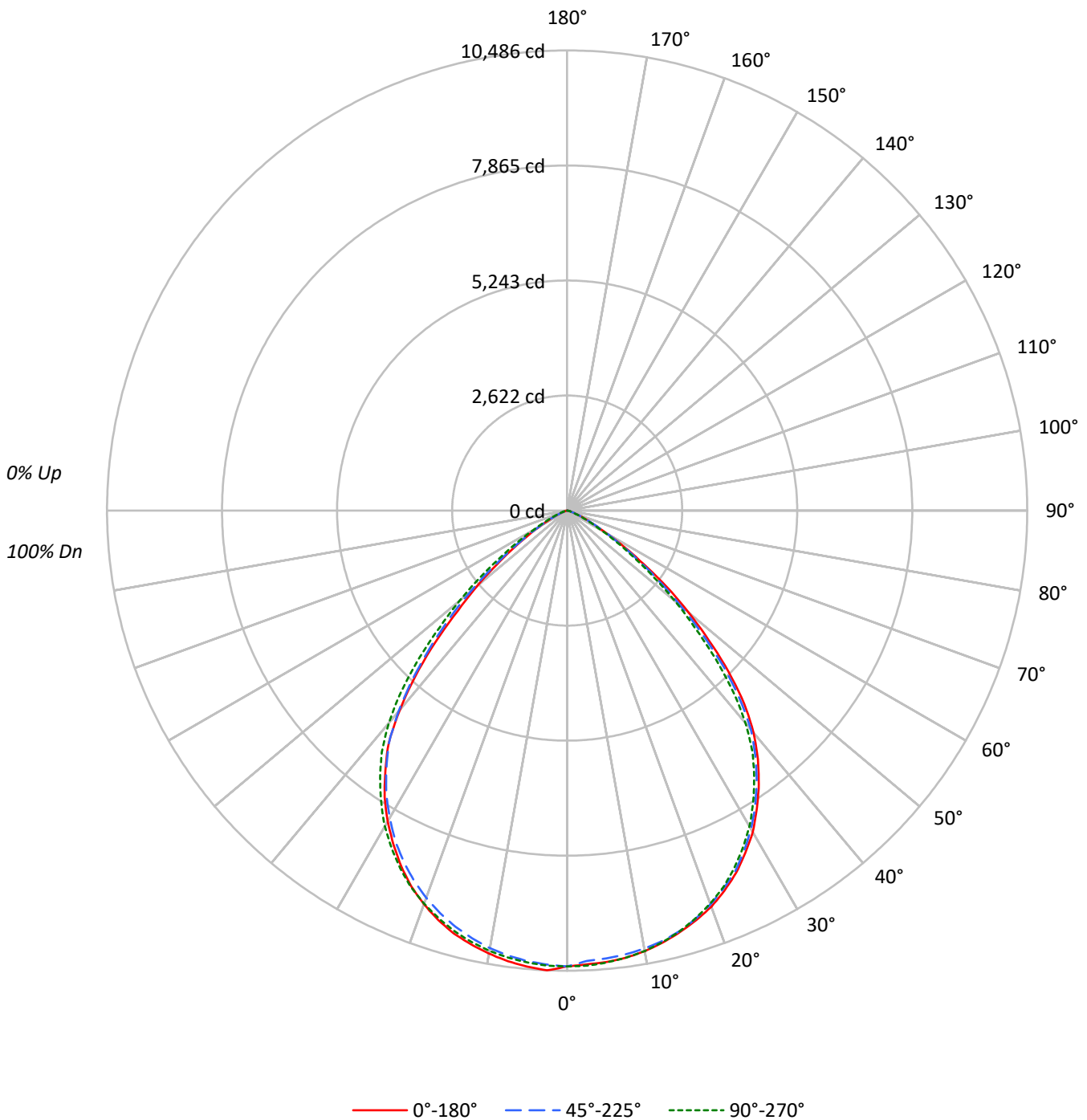
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	320312	320312	320312
5°	319669	319997	322848
10°	319220	319019	320976
15°	317377	316802	318526
20°	315254	312753	313239
25°	309929	306217	304380
30°	301226	295910	291231
35°	286645	279745	271972
40°	266183	254755	239024
45°	226890	208827	185409
50°	172764	153911	128404
55°	113888	99254	79949
60°	63955	56245	44158
65°	33542	29989	21328
70°	16039	14137	8881
75°	9091	9841	6183
80°	6961	6766	3569
85°	4140	3361	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.0	5.3
10°-20°	2794.1	15.2
20°-30°	4127.8	22.5
30°-40°	4599.9	25.1
40°-50°	3632.7	19.8
50°-60°	1677.6	9.1
60°-70°	431.0	2.3
70°-80°	83.0	0.5
80°-90°	13.0	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°	7902.8	43.1
0°-40°	12502.7	68.2
0°-60°	17813.0	97.1
0°-90°	18340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10388	10388	10388	10388	10388	
5°	10327	10245	10338	10306	10430	982
15°	9942	9918	9924	9820	9978	2806
25°	9109	9067	9000	8820	8946	4186
35°	7615	7530	7431	7184	7225	4742
45°	5203	5051	4789	4406	4252	3971
55°	2118	1997	1846	1580	1487	1963
65°	460	466	411	315	292	505
75°	76	80	83	62	52	92
85°	12	12	10	5	4	16
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°	10387.5	10387.5	10387.5	10387.5	10387.5	10387.5	10387.5	10387.5	10387.5
2.5°	10348.4	10397.1	10273.2	10373.8	10378.0	10307.1	10355.8	10414.0	10486.1
5°	10327.2	10377.0	10244.6	10337.8	10337.8	10260.4	10306.0	10356.8	10429.9
7.5°	10277.4	10331.4	10201.1	10288.0	10274.2	10189.5	10229.7	10279.5	10357.9
10°	10194.8	10261.5	10134.4	10217.0	10188.4	10091.0	10125.9	10177.8	10250.9
12.5°	10081.4	10160.9	10042.3	10114.3	10068.7	9957.5	9986.1	10052.8	10124.9
15°	9941.6	10023.2	9918.3	9980.8	9923.6	9799.7	9819.8	9887.6	9977.6
17.5°	9785.9	9865.4	9747.8	9815.6	9739.3	9611.2	9618.6	9697.0	9778.5
20°	9606.9	9672.6	9551.8	9616.5	9530.7	9389.8	9390.8	9460.8	9545.5
22.5°	9371.8	9440.6	9315.6	9369.7	9291.3	9140.9	9122.9	9190.7	9272.2
25°	9109.1	9181.1	9066.7	9085.8	9000.0	8844.3	8819.9	8869.7	8946.0
27.5°	8794.5	8865.5	8736.3	8760.6	8666.4	8517.0	8484.2	8510.7	8571.0
30°	8459.8	8504.3	8381.4	8401.6	8310.5	8133.6	8083.8	8119.8	8179.1
32.5°	8047.8	8079.6	7974.7	7985.3	7886.8	7734.3	7668.6	7679.2	7739.6
35°	7614.6	7631.5	7529.8	7532.0	7431.3	7276.7	7183.5	7178.2	7224.8
37.5°	7136.9	7148.5	7045.8	7040.5	6936.7	6769.3	6671.9	6654.9	6683.5
40°	6612.6	6628.5	6521.5	6487.6	6328.7	6138.0	5979.2	5949.5	5937.9
42.5°	5977.1	5933.6	5821.3	5764.2	5604.2	5359.5	5212.3	5167.8	5129.7
45°	5202.8	5167.8	5051.3	4922.1	4788.6	4604.3	4406.3	4284.5	4251.6
47.5°	4390.4	4349.1	4181.7	4068.4	3937.0	3852.3	3639.4	3451.9	3370.4
50°	3601.3	3555.7	3369.3	3285.6	3208.3	3082.3	2875.7	2707.3	2676.6
52.5°	2871.5	2802.6	2642.7	2555.8	2487.0	2347.2	2160.8	2063.3	2011.4
55°	2118.4	2107.8	1996.6	1934.1	1846.2	1735.0	1580.3	1507.2	1487.1
57.5°	1543.3	1504.1	1461.7	1408.7	1332.5	1192.7	1097.3	1042.3	1038.0
60°	1037.0	1049.7	1049.7	991.4	912.0	820.9	744.6	715.0	716.0
62.5°	695.9	704.4	702.2	676.8	615.4	541.2	491.5	470.3	471.3
65°	459.7	457.6	466.0	448.0	411.0	359.1	314.6	302.9	292.3
67.5°	292.3	295.5	292.3	282.8	260.6	223.5	193.8	175.8	170.5
70°	177.9	173.7	174.8	172.6	156.8	138.8	117.6	102.7	98.5
72.5°	107.0	110.2	111.2	114.4	112.3	99.6	84.7	74.1	72.0
75°	76.3	77.3	80.5	83.7	82.6	74.1	62.5	55.1	51.9
77.5°	57.2	57.2	59.3	63.6	60.4	53.0	44.5	38.1	36.0
80°	39.2	40.2	41.3	41.3	38.1	33.9	26.5	22.2	20.1
82.5°	23.3	24.4	23.3	23.3	21.2	16.9	12.7	11.7	10.6
85°	11.7	11.7	11.7	11.7	9.5	7.4	5.3	4.2	4.2
87.5°	5.3	5.3	5.3	4.2	3.2	2.1	2.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)