

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: P247959

Luminaire Tested: **LD8B175D010 ER8B175850 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20159.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

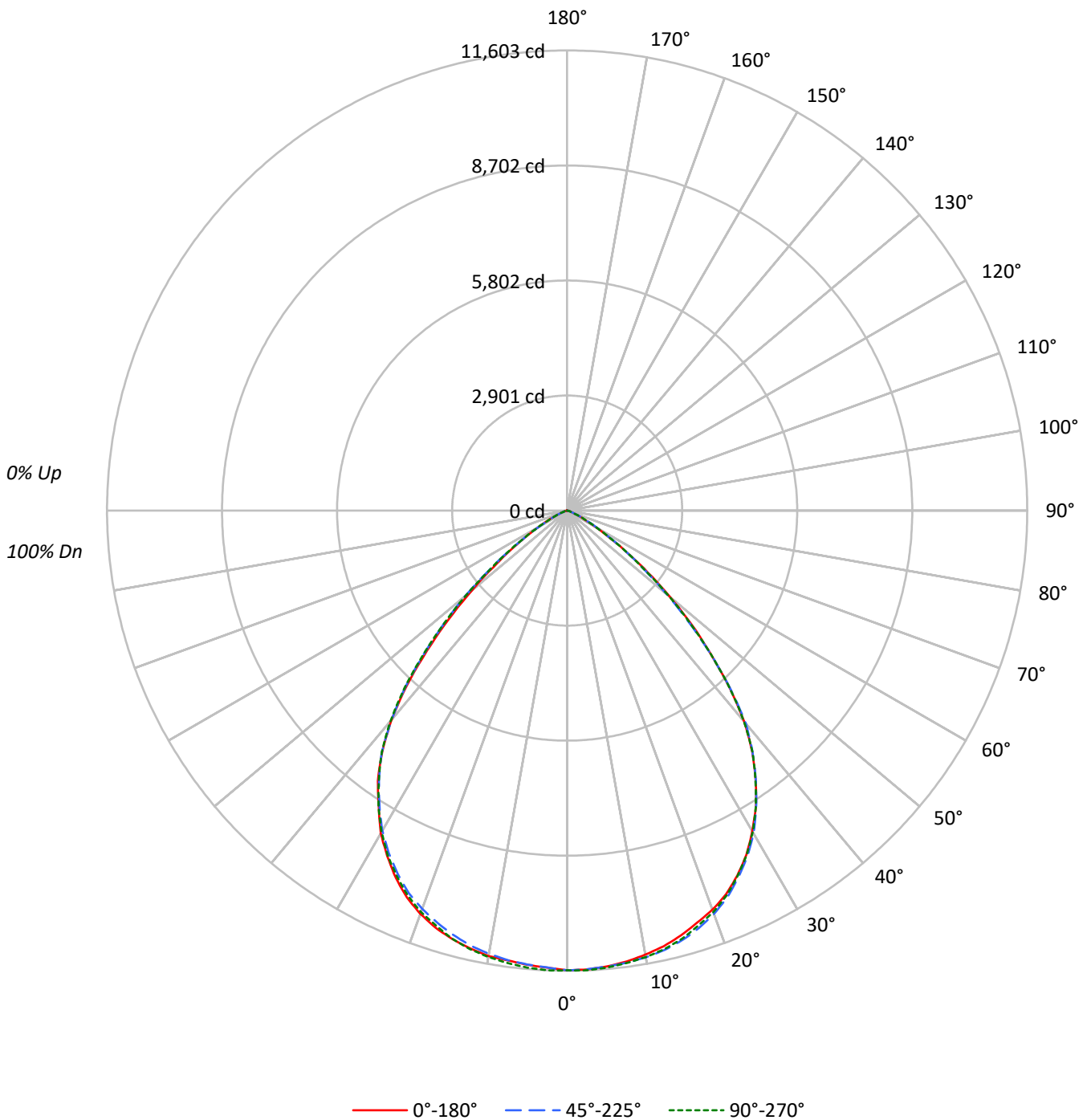
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	357439	357439	357439
5°	357176	358024	355867
10°	355933	357903	357117
15°	354022	356870	357125
20°	351446	353510	355085
25°	345481	345869	347815
30°	332396	333129	334635
35°	312067	311509	313316
40°	279797	279061	277080
45°	223475	223423	217788
50°	161510	159975	150759
55°	98986	98249	93760
60°	50849	52829	52052
65°	24779	25786	26202
70°	10621	10927	10413
75°	8316	8316	7220
80°	4475	4067	3658
85°	3644	2441	5272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.4	5.4
10°-20°	3148.0	15.6
20°-30°	4676.6	23.2
30°-40°	5153.8	25.6
40°-50°	3925.5	19.5
50°-60°	1692.2	8.4
60°-70°	388.7	1.9
70°-80°	64.6	0.3
80°-90°	12.1	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°	8922.1	44.3
0°-40°	14075.9	69.8
0°-60°	19693.5	97.7
0°-90°	20159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20159.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11592	11592	11592	11592	11592	
5°	11539	11538	11566	11489	11497	###
15°	11090	11213	11179	11079	11187	3128
25°	10154	10211	10165	10106	10223	4660
35°	8290	8294	8275	8268	8323	5147
45°	5124	5114	5123	5096	4994	3953
55°	1841	1840	1828	1839	1744	1717
65°	340	373	353	351	359	380
75°	70	70	70	71	61	64
85°	10	7	7	21	15	10
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°	11591.5	11591.5	11591.5	11591.5	11591.5	11591.5	11591.5	11591.5	11591.5
2.5°	11578.9	11580.1	11572.0	11589.2	11602.9	11558.3	11532.0	11591.5	11534.3
5°	11538.9	11546.9	11537.7	11559.5	11566.3	11529.7	11488.6	11552.6	11496.6
7.5°	11470.3	11486.3	11500.0	11525.2	11506.9	11461.1	11433.7	11509.1	11440.5
10°	11367.3	11407.4	11437.1	11474.8	11430.2	11381.1	11347.9	11450.8	11405.1
12.5°	11251.8	11297.6	11347.9	11393.6	11326.2	11254.1	11237.0	11346.8	11305.6
15°	11089.5	11131.8	11213.0	11256.4	11178.7	11096.3	11079.2	11218.7	11186.7
17.5°	10898.5	10972.8	11041.4	11075.7	10977.4	10906.5	10897.3	11041.4	11028.8
20°	10709.8	10749.8	10820.7	10866.4	10772.7	10688.0	10684.6	10833.3	10820.7
22.5°	10470.8	10506.2	10553.1	10595.4	10507.4	10436.5	10441.0	10563.4	10561.1
25°	10154.0	10178.0	10211.2	10258.1	10165.4	10115.1	10106.0	10236.3	10222.6
27.5°	9784.6	9800.6	9838.4	9878.4	9798.3	9753.7	9737.7	9868.1	9822.3
30°	9335.2	9371.8	9398.1	9415.2	9355.8	9328.3	9316.9	9419.8	9398.1
32.5°	8858.3	8870.9	8872.0	8914.3	8851.4	8812.6	8812.6	8894.9	8845.7
35°	8289.9	8287.6	8294.5	8340.2	8275.1	8288.8	8268.2	8333.4	8323.1
37.5°	7666.7	7677.0	7679.2	7715.8	7679.2	7688.4	7680.4	7690.7	7657.5
40°	6950.8	6995.4	7010.2	7003.4	6932.5	6908.5	6887.9	6925.6	6883.3
42.5°	6062.2	6082.8	6085.1	6089.6	6070.2	6066.8	6041.6	6057.6	5991.3
45°	5124.5	5133.6	5114.2	5110.7	5123.3	5142.8	5095.9	5059.3	4994.1
47.5°	4267.9	4235.9	4147.8	4179.8	4193.6	4242.7	4192.4	4094.1	4040.3
50°	3366.7	3333.6	3266.1	3281.0	3334.7	3409.1	3350.7	3214.6	3142.6
52.5°	2571.9	2534.2	2458.7	2472.5	2488.5	2544.5	2513.6	2421.0	2351.2
55°	1841.2	1814.9	1840.0	1819.5	1827.5	1881.2	1838.9	1762.3	1744.0
57.5°	1244.2	1259.1	1279.7	1283.1	1267.1	1251.1	1245.4	1215.6	1231.7
60°	824.5	836.0	870.3	880.6	856.6	822.2	829.1	829.1	844.0
62.5°	532.9	543.2	583.2	590.1	555.8	546.6	546.6	543.2	570.7
65°	339.6	360.2	372.8	354.5	353.4	340.8	351.1	351.1	359.1
67.5°	203.6	185.3	197.8	205.8	197.8	187.5	185.3	186.4	197.8
70°	117.8	113.2	121.2	116.6	121.2	105.2	117.8	112.1	115.5
72.5°	75.5	74.3	74.3	78.9	74.3	72.0	76.6	66.3	73.2
75°	69.8	69.8	69.8	60.6	69.8	67.5	70.9	53.7	60.6
77.5°	27.4	32.0	38.9	37.7	37.7	35.5	32.0	27.4	42.3
80°	25.2	22.9	30.9	36.6	22.9	27.4	30.9	19.4	20.6
82.5°	12.6	11.4	14.9	14.9	14.9	8.0	20.6	12.6	10.3
85°	10.3	4.6	6.9	6.9	6.9	9.1	20.6	5.7	14.9
87.5°	2.3	3.4	5.7	5.7	6.9	11.4	20.6	4.6	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)