

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: P248112

Luminaire Tested: **LD8B175D010 ER8B175935 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16068.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

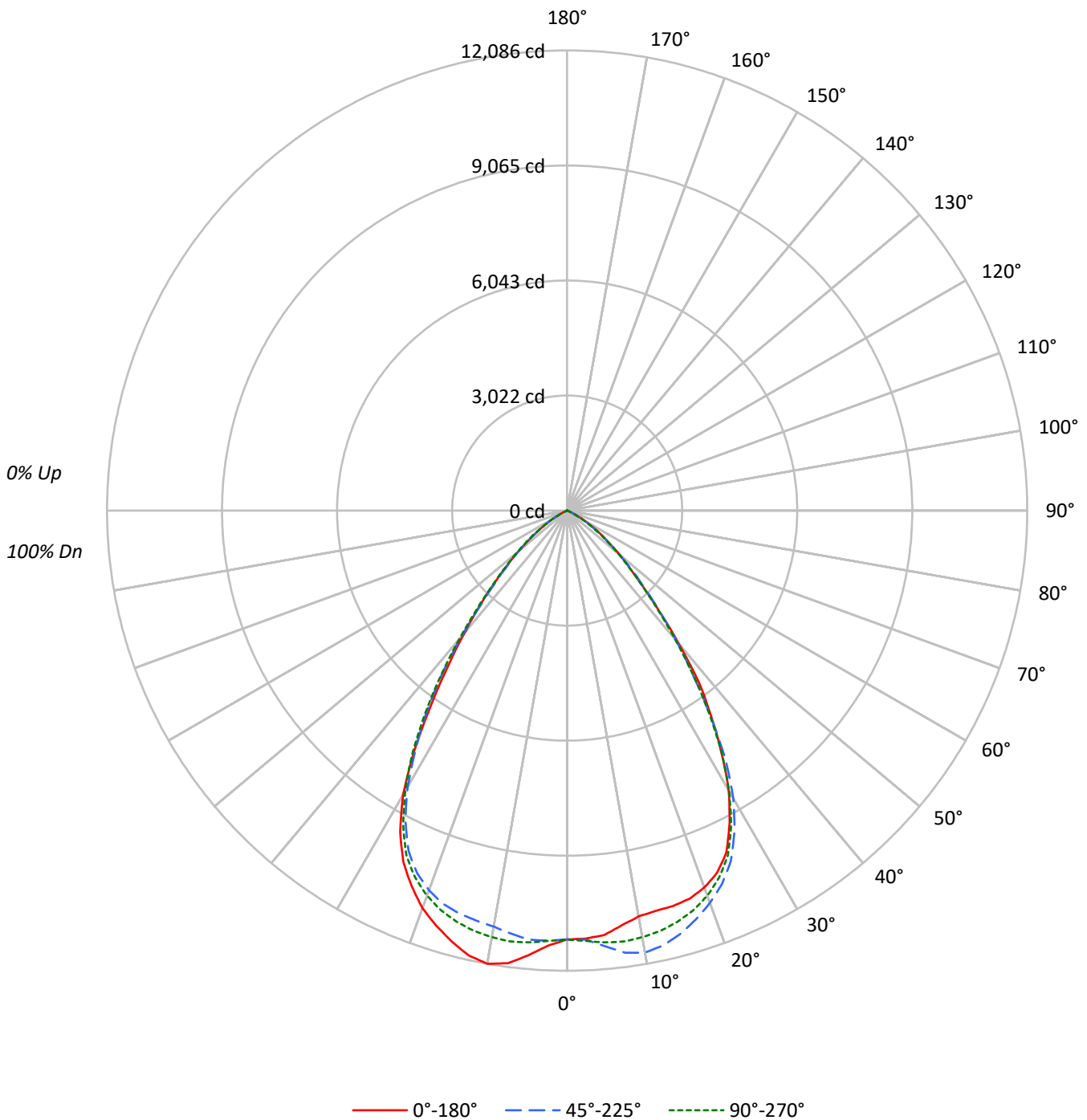
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	347353	347353	347353
5°	346324	352375	362894
10°	338874	356237	378424
15°	343133	357055	373991
20°	345696	353218	364654
25°	336845	339989	346508
30°	302155	302942	306574
35°	248226	244567	233981
40°	183389	177460	168390
45°	121630	120710	118905
50°	86044	82307	80364
55°	57503	52331	49482
60°	32360	28086	25594
65°	12506	8989	7450
70°	3642	2083	1740
75°	1037	572	691
80°	0	0	0
85°	672	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.6	6.8
10°-20°	3160.0	19.7
20°-30°	4537.9	28.2
30°-40°	4011.3	25.0
40°-50°	2195.7	13.7
50°-60°	903.9	5.6
60°-70°	162.0	1.0
70°-80°	7.0	0.0
80°-90°	0.6	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°	8787.5	54.7
0°-40°	12798.8	79.7
0°-60°	15898.5	98.9
0°-90°	16068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16068.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11264	11264	11264	11264	11264	
5°	11188	11489	11384	11314	11724	###
15°	10748	11508	11184	10953	11715	3036
25°	9900	10168	9993	9861	10184	4478
35°	6594	6535	6497	6408	6216	4091
45°	2789	2871	2768	2650	2727	2245
55°	1070	1020	973	942	920	969
65°	171	134	123	99	102	200
75°	9	4	5	6	6	13
85°	2	2	0	6	0	1
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°	11264.4	11264.4	11264.4	11264.4	11264.4	11264.4	11264.4	11264.4	11264.4
2.5°	11250.0	11270.2	11279.8	11330.8	11313.5	11289.4	11302.9	11344.3	11433.9
5°	11188.3	11296.2	11488.7	11554.2	11383.8	11235.5	11314.5	11540.7	11723.6
7.5°	10985.2	11256.7	11712.1	11811.3	11416.5	11075.7	11213.4	11701.5	11990.3
10°	10822.5	11159.5	11785.3	11932.6	11377.0	10936.1	11096.9	11693.8	12085.6
12.5°	10767.6	11078.6	11692.8	11859.4	11310.6	10887.0	11028.5	11581.2	11964.3
15°	10748.4	10997.7	11508.0	11641.8	11184.5	10838.9	10953.4	11397.3	11715.0
17.5°	10688.7	10874.5	11254.8	11363.6	11011.2	10743.5	10832.1	11176.8	11431.9
20°	10534.6	10692.5	10965.9	11042.0	10763.8	10553.9	10610.7	10869.7	11112.3
22.5°	10293.9	10396.0	10617.4	10654.0	10433.5	10266.0	10301.6	10495.2	10672.3
25°	9900.2	9971.4	10167.8	10177.4	9992.6	9846.2	9860.7	10022.4	10184.2
27.5°	9237.8	9372.6	9517.0	9558.4	9326.4	9155.0	9199.3	9307.1	9496.8
30°	8485.9	8585.0	8726.5	8694.8	8508.0	8354.0	8372.2	8468.5	8610.0
32.5°	7548.1	7653.1	7725.3	7659.8	7565.4	7427.8	7386.4	7427.8	7466.3
35°	6594.0	6629.6	6535.3	6497.7	6496.8	6454.4	6408.2	6283.0	6215.6
37.5°	5683.2	5571.5	5402.1	5329.9	5412.7	5515.7	5377.1	5213.4	5128.7
40°	4555.8	4558.7	4452.8	4377.7	4408.5	4373.9	4313.2	4208.3	4183.2
42.5°	3561.3	3571.9	3605.6	3563.2	3489.1	3376.4	3342.7	3347.6	3421.7
45°	2789.1	2810.3	2871.0	2865.2	2768.0	2696.7	2649.5	2716.0	2726.6
47.5°	2218.2	2248.1	2273.1	2271.2	2196.1	2124.8	2103.7	2116.2	2142.2
50°	1793.6	1790.8	1771.5	1746.5	1715.7	1701.2	1677.1	1675.2	1675.2
52.5°	1381.6	1386.4	1347.9	1349.8	1335.4	1294.9	1284.3	1263.2	1263.2
55°	1069.6	1050.4	1019.6	989.7	973.4	945.4	941.6	919.4	920.4
57.5°	759.6	742.3	705.7	687.4	674.9	667.2	650.8	633.5	625.8
60°	524.7	510.3	490.0	471.8	455.4	451.5	436.1	418.8	415.0
62.5°	316.8	312.9	277.3	270.5	258.0	252.2	241.7	230.1	231.1
65°	171.4	146.3	133.8	126.1	123.2	107.8	99.2	97.2	102.1
67.5°	46.2	46.2	37.5	35.6	35.6	26.0	29.8	28.9	37.5
70°	40.4	28.9	25.0	20.2	23.1	13.5	25.0	20.2	19.3
72.5°	21.2	11.6	9.6	9.6	10.6	6.7	15.4	8.7	6.7
75°	8.7	5.8	3.9	1.9	4.8	4.8	5.8	1.9	5.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	2.9	1.9	0.0	0.0	0.0	5.8	0.0	0.0
87.5°	0.0	1.9	1.0	0.0	0.0	0.0	1.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)