

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: P248097

Luminaire Tested: **LD8B175D010 ER8B175835 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248097
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 ER8B175835 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18842.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

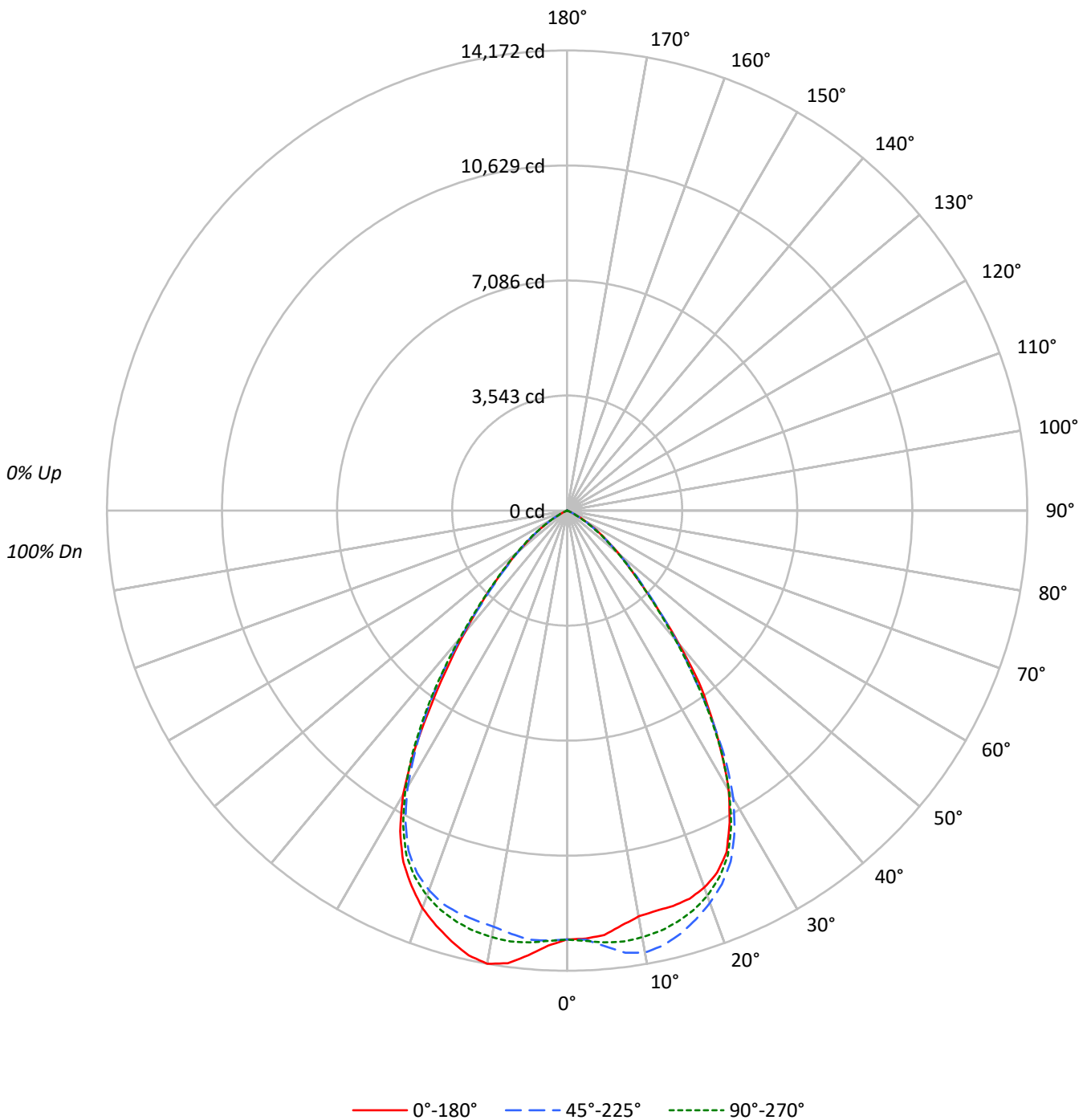
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	407320	407320	407320
5°	406115	413209	425545
10°	397378	417740	443757
15°	402371	418697	438557
20°	405377	414195	427607
25°	394996	398684	406330
30°	354319	355241	359503
35°	291080	286788	274377
40°	215053	208097	197462
45°	142632	141547	139431
50°	100901	96512	94238
55°	67433	61363	58025
60°	37947	32933	30010
65°	14666	10543	8734
70°	4274	2443	2038
75°	1215	667	810
80°	0	0	0
85°	814	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.8	6.8
10°-20°	3705.5	19.7
20°-30°	5321.3	28.2
30°-40°	4703.8	25.0
40°-50°	2574.8	13.7
50°-60°	1060.0	5.6
60°-70°	189.9	1.0
70°-80°	8.2	0.0
80°-90°	0.7	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°	10304.6	54.7
0°-40°	15008.4	79.7
0°-60°	18643.2	98.9
0°-90°	18842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13209	13209	13209	13209	13209	
5°	13120	13472	13349	13268	13748	###
15°	12604	13495	13115	12844	13738	3560
25°	11609	11923	11718	11563	11942	5251
35°	7732	7664	7618	7514	7289	4797
45°	3271	3367	3246	3107	3197	2632
55°	1254	1196	1141	1104	1079	1137
65°	201	157	144	116	120	234
75°	10	4	6	7	7	15
85°	2	2	0	7	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°	13209.1	13209.1	13209.1	13209.1	13209.1	13209.1	13209.1	13209.1	13209.1
2.5°	13192.2	13215.9	13227.2	13287.0	13266.7	13238.5	13254.3	13302.8	13407.8
5°	13119.9	13246.4	13472.2	13548.9	13349.1	13175.2	13267.8	13533.1	13747.6
7.5°	12881.7	13200.1	13734.1	13850.4	13387.5	12987.8	13149.3	13721.7	14060.4
10°	12690.9	13086.0	13819.9	13992.6	13341.2	12824.1	13012.7	13712.6	14172.1
12.5°	12626.6	12991.2	13711.5	13906.8	13263.3	12766.5	12932.5	13580.5	14029.9
15°	12604.0	12896.4	13494.7	13651.7	13115.4	12710.1	12844.4	13364.9	13737.5
17.5°	12534.0	12751.9	13197.8	13325.4	12912.2	12598.3	12702.2	13106.4	13405.6
20°	12353.3	12538.5	12859.1	12948.3	12622.0	12375.9	12442.5	12746.2	13030.7
22.5°	12071.1	12190.8	12450.4	12493.3	12234.8	12038.4	12080.1	12307.0	12514.8
25°	11609.3	11692.9	11923.2	11934.5	11717.7	11546.1	11563.0	11752.7	11942.4
27.5°	10832.6	10990.7	11160.0	11208.5	10936.5	10735.5	10787.4	10913.9	11136.3
30°	9950.9	10067.1	10233.1	10195.9	9976.8	9796.2	9817.6	9930.5	10096.5
32.5°	8851.2	8974.3	9059.0	8982.2	8871.6	8710.1	8661.6	8710.1	8755.3
35°	7732.4	7774.2	7663.5	7619.5	7618.4	7568.7	7514.5	7367.7	7288.7
37.5°	6664.4	6533.4	6334.7	6250.1	6347.1	6467.9	6305.4	6113.4	6014.1
40°	5342.4	5345.7	5221.5	5133.5	5169.6	5129.0	5057.8	4934.8	4905.4
42.5°	4176.1	4188.5	4228.0	4178.4	4091.4	3959.3	3919.8	3925.5	4012.4
45°	3270.7	3295.5	3366.6	3359.9	3245.8	3162.3	3107.0	3184.9	3197.3
47.5°	2601.2	2636.2	2665.5	2663.3	2575.2	2491.7	2466.8	2481.5	2512.0
50°	2103.3	2099.9	2077.3	2048.0	2011.8	1994.9	1966.7	1964.4	1964.4
52.5°	1620.1	1625.7	1580.6	1582.8	1565.9	1518.5	1506.1	1481.2	1481.2
55°	1254.3	1231.7	1195.6	1160.6	1141.4	1108.7	1104.1	1078.2	1079.3
57.5°	890.8	870.4	827.5	806.1	791.4	782.4	763.2	742.9	733.8
60°	615.3	598.4	574.7	553.2	534.0	529.5	511.4	491.1	486.6
62.5°	371.4	366.9	325.1	317.2	302.6	295.8	283.4	269.8	271.0
65°	201.0	171.6	156.9	147.9	144.5	126.4	116.3	114.0	119.7
67.5°	54.2	54.2	44.0	41.8	41.8	30.5	35.0	33.9	44.0
70°	47.4	33.9	29.4	23.7	27.1	15.8	29.4	23.7	22.6
72.5°	24.8	13.5	11.3	11.3	12.4	7.9	18.1	10.2	7.9
75°	10.2	6.8	4.5	2.3	5.6	5.6	6.8	2.3	6.8
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°	2.3	3.4	2.3	0.0	0.0	0.0	6.8	0.0	0.0
87.5°	0.0	2.3	1.1	0.0	0.0	0.0	2.3	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)