

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: P247779

Luminaire Tested: **LD8B175D010 ER8B175850 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19589.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

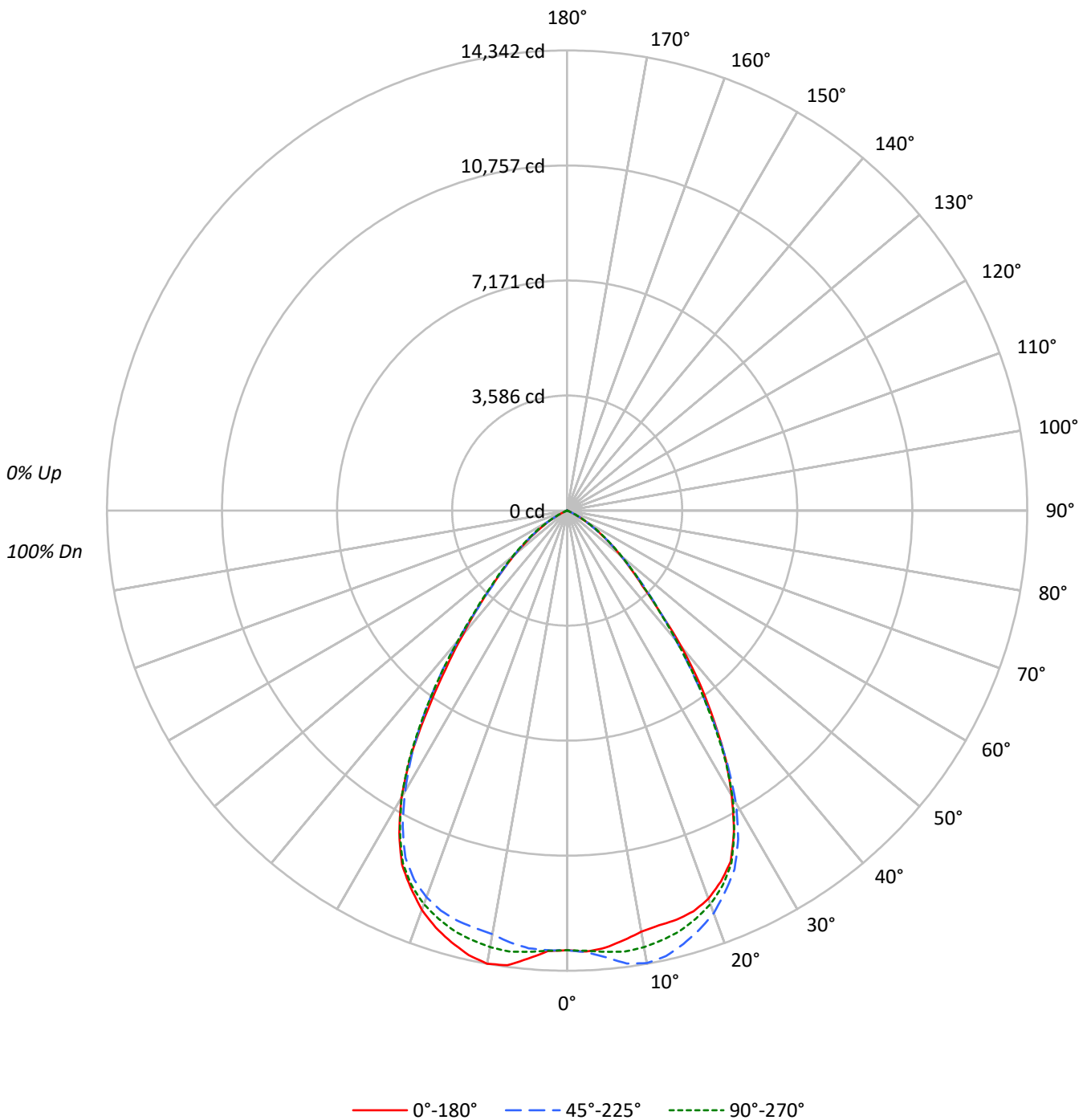
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	422470	422470	422470
5°	423341	427340	433924
10°	417242	432604	449077
15°	421456	433066	444639
20°	422527	428417	434462
25°	410542	412294	414471
30°	365136	367255	367582
35°	299889	293429	284560
40°	222302	213463	203979
45°	144529	148070	143282
50°	104346	106159	101606
55°	69535	71567	64987
60°	39002	42104	36886
65°	12265	15272	12849
70°	3201	3715	2993
75°	2049	1501	2454
80°	408	1225	0
85°	4458	1203	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1320.3	6.7
10°-20°	3823.7	19.5
20°-30°	5484.7	28.0
30°-40°	4839.9	24.7
40°-50°	2679.8	13.7
50°-60°	1180.9	6.0
60°-70°	238.6	1.2
70°-80°	17.9	0.1
80°-90°	3.3	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°	10628.7	54.3
0°-40°	15468.6	79.0
0°-60°	19329.2	98.7
0°-90°	19589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13700	13700	13700	13700	13700	
5°	13676	13977	13806	13694	14018	###
15°	13202	13988	13566	13234	13928	3724
25°	12066	12337	12118	11936	12182	5451
35°	7966	7852	7795	7801	7559	4941
45°	3314	3455	3395	3268	3286	2699
55°	1293	1288	1331	1262	1209	1186
65°	168	181	209	190	176	232
75°	17	17	13	14	21	17
85°	13	7	3	10	5	6
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°	13700.4	13700.4	13700.4	13700.4	13700.4	13700.4	13700.4	13700.4	13700.4
2.5°	13757.6	13700.4	13775.9	13729.0	13732.4	13661.5	13717.6	13771.3	13741.6
5°	13676.4	13729.0	13977.2	13970.3	13805.6	13591.8	13693.6	13938.3	14018.3
7.5°	13508.3	13698.1	14236.8	14286.0	13862.8	13412.2	13578.1	14088.1	14291.7
10°	13325.3	13598.6	14322.5	14418.6	13815.9	13222.4	13409.9	14052.7	14342.0
12.5°	13237.3	13501.4	14223.1	14315.7	13708.4	13130.9	13320.7	13917.7	14186.5
15°	13201.8	13400.8	13987.5	14072.1	13565.5	13079.4	13233.8	13722.2	13928.0
17.5°	13094.3	13231.5	13695.9	13749.6	13339.0	12953.6	13074.9	13448.8	13628.4
20°	12875.9	12967.4	13357.3	13385.9	13055.4	12728.4	12822.1	13117.2	13239.6
22.5°	12515.6	12576.3	12864.4	12874.7	12658.6	12375.0	12452.7	12683.8	12729.5
25°	12066.2	12071.9	12337.2	12288.1	12117.7	11854.6	11935.8	12133.7	12181.7
27.5°	11257.7	11277.1	11545.9	11480.7	11279.4	11050.7	11101.0	11281.7	11329.7
30°	10254.7	10363.4	10518.9	10486.9	10314.2	10084.3	10094.6	10271.9	10323.4
32.5°	9200.3	9168.3	9248.4	9224.3	9135.1	8953.3	9013.9	9059.7	9072.2
35°	7966.4	7940.1	7852.0	7741.1	7794.8	7865.7	7800.6	7699.9	7559.2
37.5°	6780.5	6632.9	6461.4	6345.9	6536.9	6611.2	6547.2	6328.7	6215.5
40°	5522.5	5367.0	5274.3	5245.7	5302.9	5357.8	5285.8	5179.4	5067.3
42.5°	4258.8	4257.7	4280.5	4274.8	4235.9	4157.0	4099.8	4145.6	4127.3
45°	3314.2	3365.6	3454.8	3469.7	3395.4	3279.9	3268.4	3311.9	3285.6
47.5°	2697.8	2716.1	2748.1	2793.8	2751.5	2693.2	2663.5	2677.2	2653.2
50°	2175.1	2179.7	2194.6	2228.9	2212.9	2172.9	2144.3	2127.1	2118.0
52.5°	1708.6	1698.3	1709.7	1721.1	1742.9	1716.6	1692.5	1655.9	1627.4
55°	1293.4	1285.4	1287.7	1296.9	1331.2	1301.4	1262.5	1238.5	1208.8
57.5°	938.9	912.6	918.3	949.2	981.2	968.6	934.3	895.4	858.8
60°	632.4	626.7	625.6	658.7	682.7	678.2	639.3	610.7	598.1
62.5°	374.0	370.5	379.7	394.5	423.1	402.6	376.2	361.4	356.8
65°	168.1	176.1	180.7	192.1	209.3	204.7	189.8	173.8	176.1
67.5°	73.2	56.0	62.9	70.9	66.3	69.8	61.8	65.2	62.9
70°	35.5	37.7	35.5	44.6	41.2	43.5	35.5	42.3	33.2
72.5°	25.2	21.7	27.4	32.0	27.4	32.0	28.6	21.7	17.2
75°	17.2	10.3	17.2	10.3	12.6	18.3	13.7	18.3	20.6
77.5°	2.3	8.0	3.4	4.6	2.3	5.7	5.7	3.4	10.3
80°	2.3	3.4	2.3	4.6	6.9	1.1	4.6	10.3	0.0
82.5°	8.0	0.0	1.1	0.0	1.1	2.3	0.0	2.3	0.0
85°	12.6	3.4	6.9	16.0	3.4	6.9	10.3	4.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)