

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: P247773

Luminaire Tested: **LD8B175D010 ER8B175835 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247773
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 ER8B175835 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19339.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

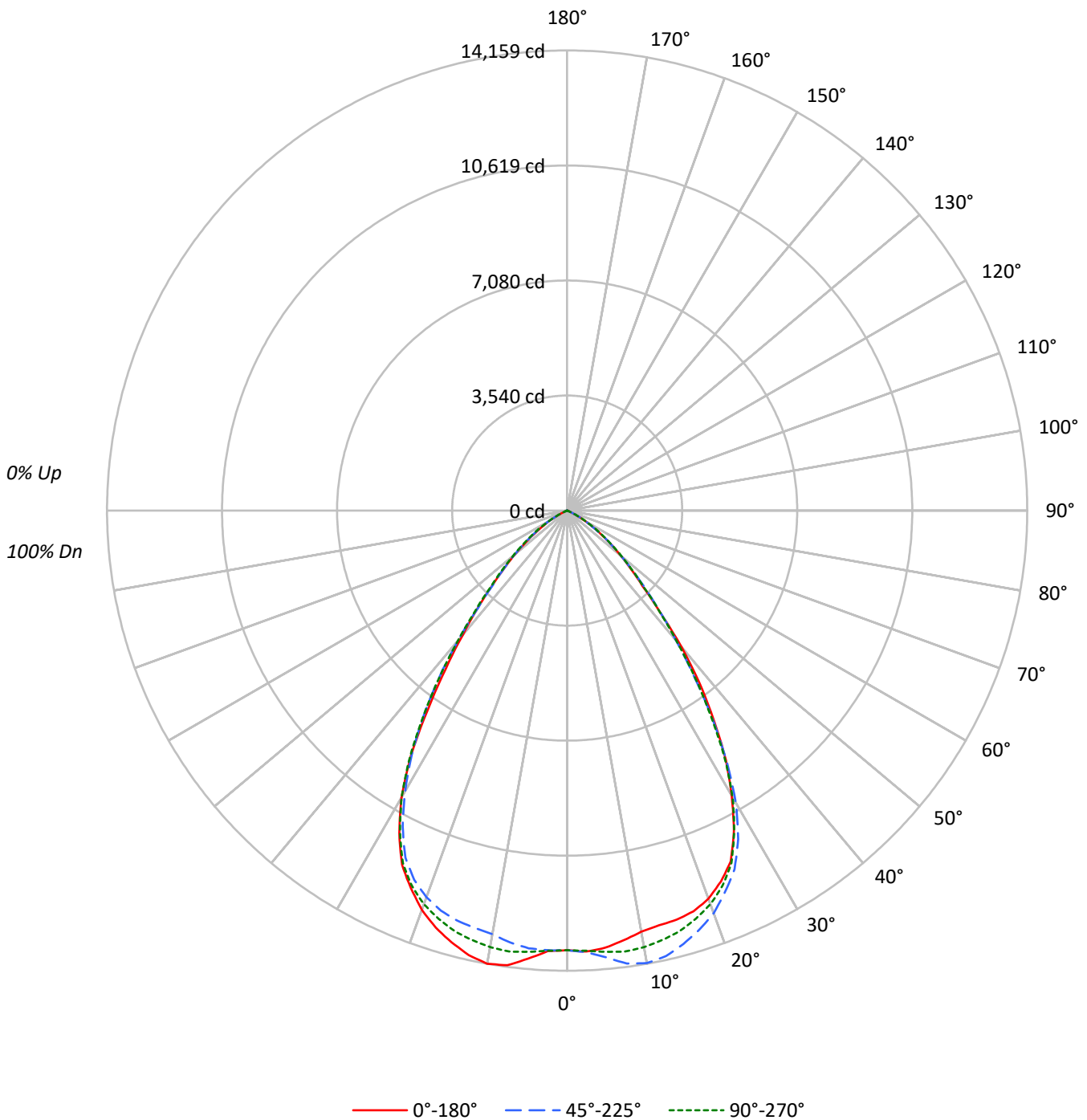
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	417080	417080	417080
5°	417939	421886	428386
10°	411919	427083	443347
15°	416076	427540	438966
20°	417135	422950	428916
25°	405302	407030	409181
30°	360479	362569	362889
35°	296060	289687	280931
40°	219465	210737	201378
45°	142685	146178	141455
50°	103017	104801	100306
55°	68648	70653	64159
60°	38502	41567	36418
65°	12112	15075	12689
70°	3156	3660	2948
75°	2014	1477	2419
80°	408	1208	0
85°	4387	1203	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1303.4	6.7
10°-20°	3774.9	19.5
20°-30°	5414.7	28.0
30°-40°	4778.1	24.7
40°-50°	2645.6	13.7
50°-60°	1165.8	6.0
60°-70°	235.6	1.2
70°-80°	17.7	0.1
80°-90°	3.2	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°	10493.1	54.3
0°-40°	15271.2	79.0
0°-60°	19082.6	98.7
0°-90°	19339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19339.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13526	13526	13526	13526	13526	
5°	13502	13799	13629	13519	13839	###
15°	13033	13809	13392	13065	13750	3677
25°	11912	12180	11963	11784	12026	5381
35°	7865	7752	7695	7701	7463	4878
45°	3272	3411	3352	3227	3244	2665
55°	1277	1271	1314	1246	1193	1170
65°	166	178	207	187	174	229
75°	17	17	12	14	20	16
85°	12	7	3	10	4	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°	13525.6	13525.6	13525.6	13525.6	13525.6	13525.6	13525.6	13525.6	13525.6
2.5°	13582.0	13525.6	13600.1	13553.8	13557.2	13487.2	13542.5	13595.6	13566.2
5°	13501.9	13553.8	13798.8	13792.0	13629.4	13418.3	13518.8	13760.4	13839.4
7.5°	13335.9	13523.3	14055.1	14103.6	13685.9	13241.1	13404.8	13908.3	14109.3
10°	13155.3	13425.1	14139.8	14234.6	13639.6	13053.6	13238.8	13873.3	14159.0
12.5°	13068.3	13329.1	14041.5	14133.0	13533.5	12963.3	13150.7	13740.1	14005.4
15°	13033.3	13229.8	13809.0	13892.5	13392.4	12912.5	13064.9	13547.0	13750.3
17.5°	12927.2	13062.7	13521.1	13574.1	13168.8	12788.3	12908.0	13277.2	13454.4
20°	12711.6	12801.9	13186.9	13215.1	12888.8	12565.9	12658.5	12949.8	13070.6
22.5°	12355.9	12415.8	12700.3	12710.4	12497.0	12217.1	12293.8	12521.9	12567.0
25°	11912.2	11917.9	12179.8	12131.2	11963.0	11703.4	11783.5	11978.8	12026.2
27.5°	11114.0	11133.2	11398.5	11334.2	11135.5	10909.7	10959.3	11137.7	11185.1
30°	10123.9	10231.1	10384.7	10353.1	10182.6	9955.6	9965.8	10140.8	10191.6
32.5°	9082.9	9051.3	9130.3	9106.6	9018.6	8839.0	8898.9	8944.0	8956.5
35°	7864.7	7838.7	7751.8	7642.3	7695.4	7765.4	7701.0	7601.6	7462.8
37.5°	6693.9	6548.3	6378.9	6264.9	6453.4	6526.8	6463.6	6248.0	6136.2
40°	5452.0	5298.5	5207.0	5178.8	5235.2	5289.4	5218.3	5113.3	5002.7
42.5°	4204.4	4203.3	4225.9	4220.3	4181.9	4104.0	4047.5	4092.7	4074.6
45°	3271.9	3322.7	3410.7	3425.4	3352.0	3238.0	3226.7	3269.6	3243.7
47.5°	2663.3	2681.4	2713.0	2758.2	2716.4	2658.8	2629.5	2643.0	2619.3
50°	2147.4	2151.9	2166.6	2200.4	2184.6	2145.1	2116.9	2100.0	2090.9
52.5°	1686.7	1676.6	1687.9	1699.2	1720.6	1694.6	1670.9	1634.8	1606.6
55°	1276.9	1269.0	1271.3	1280.3	1314.2	1284.8	1246.4	1222.7	1193.4
57.5°	926.9	901.0	906.6	937.1	968.7	956.3	922.4	884.0	847.9
60°	624.3	618.7	617.6	650.3	674.0	669.5	631.1	602.9	590.5
62.5°	369.2	365.8	374.8	389.5	417.7	397.4	371.4	356.8	352.3
65°	166.0	173.9	178.4	189.7	206.6	202.1	187.4	171.6	173.9
67.5°	72.3	55.3	62.1	70.0	65.5	68.9	61.0	64.4	62.1
70°	35.0	37.3	35.0	44.0	40.6	42.9	35.0	41.8	32.7
72.5°	24.8	21.5	27.1	31.6	27.1	31.6	28.2	21.5	16.9
75°	16.9	10.2	16.9	10.2	12.4	18.1	13.5	18.1	20.3
77.5°	2.3	7.9	3.4	4.5	2.3	5.6	5.6	3.4	10.2
80°	2.3	3.4	2.3	4.5	6.8	1.1	4.5	10.2	0.0
82.5°	7.9	0.0	1.1	0.0	1.1	2.3	0.0	2.3	0.0
85°	12.4	3.4	6.8	15.8	3.4	6.8	10.2	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)