

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: P250146

Luminaire Tested: **LD8B175D010 ER8B175840 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18141.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

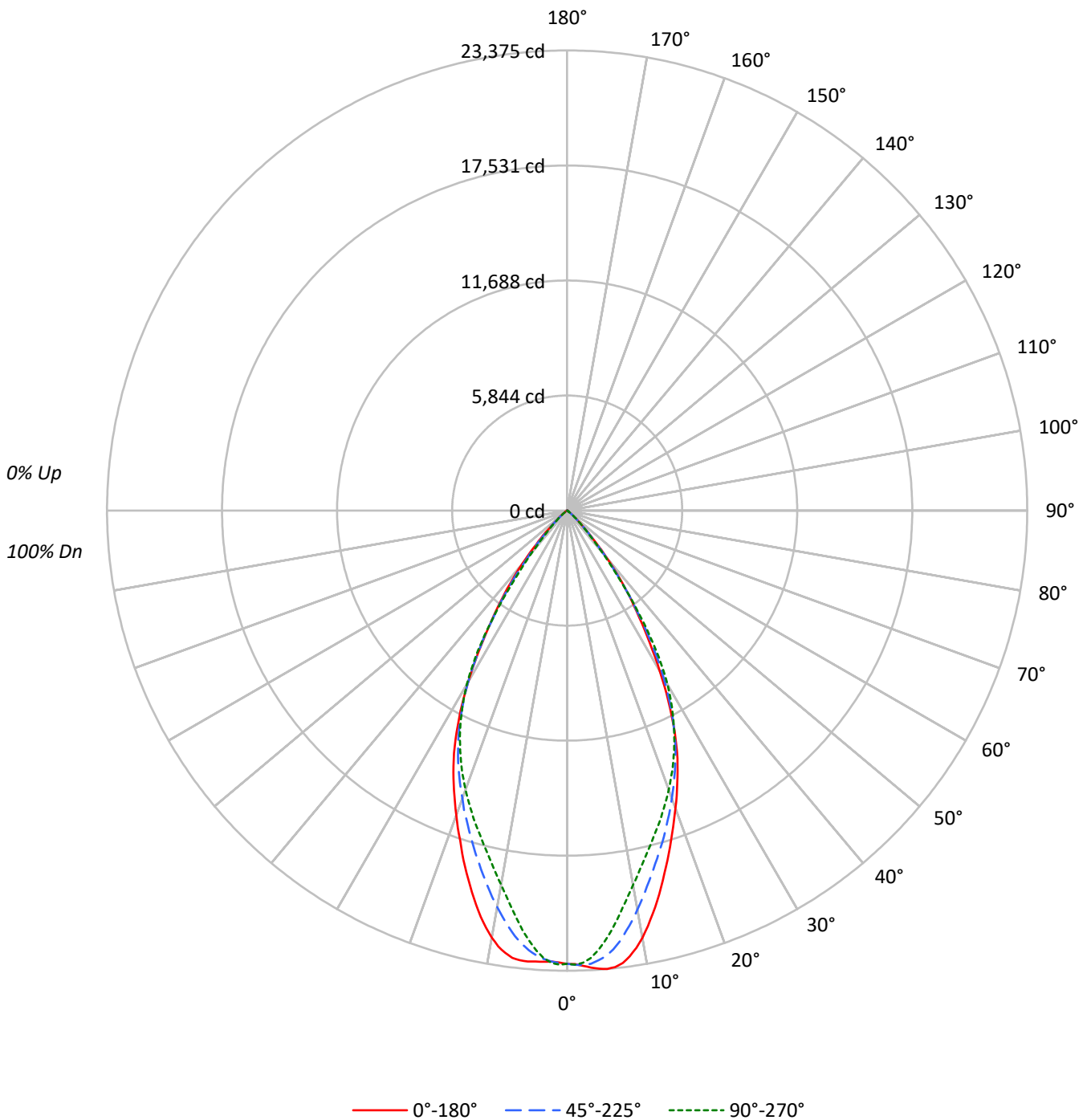
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250146

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250146

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBM0WH

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	709929	709929	709929
5°	723558	679721	711774
10°	689860	604679	689685
15°	609173	545379	619535
20°	527907	495026	540396
25°	446036	438418	462411
30°	335237	362943	358157
35°	224412	237264	243373
40°	125729	107929	144206
45°	50530	44425	60050
50°	17453	16920	20676
55°	4817	5720	5419
60°	2763	3454	3108
65°	2452	2036	1627
70°	0	1515	1010
75°	0	0	0
80°	0	0	994
85°	0	0	0



TEST NUMBER: P250146

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBM0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2090.0	11.5
10°-20°	5055.0	27.9
20°-30°	5924.7	32.7
30°-40°	3898.1	21.5
40°-50°	1017.2	5.6
50°-60°	125.1	0.7
60°-70°	25.9	0.1
70°-80°	4.8	0.0
80°-90°	0.1	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°	13069.6	72.0
0°-40°	16967.7	93.5
0°-60°	18110.1	99.8
0°-90°	18141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18141.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23022	23022	23022	23022	23022	
5°	23375	22709	21959	22412	22994	###
15°	19082	18002	17084	18002	19406	5319
25°	13109	12981	12886	13104	13591	5910
35°	5961	6096	6303	6364	6465	3733
45°	1159	1091	1019	1181	1377	1039
55°	90	95	106	106	101	119
65°	34	28	28	22	22	23
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250146

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBM0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23022.5	23022.5	23022.5	23022.5	23022.5	23022.5	23022.5	23022.5	23022.5
1°	23039.3	23072.9	23084.0	23117.7	23067.3	23033.8	22989.0	22955.3	22960.9
2°	23140.1	23156.9	23095.3	23072.9	22983.4	22955.3	22921.7	22916.1	22921.7
3°	23246.5	23212.8	23050.5	22899.4	22765.1	22748.2	22809.8	22899.4	22949.7
4°	23330.4	23240.9	22899.4	22619.5	22406.8	22390.1	22636.3	22865.7	22960.9
5°	23375.2	23212.8	22709.0	22238.9	21959.0	22065.3	22412.4	22820.9	22994.5
6°	23313.6	23072.9	22418.0	21791.1	21472.0	21612.0	22121.3	22714.7	22972.1
7°	23156.9	22849.0	22043.0	21304.1	20912.2	21130.6	21779.9	22535.5	22888.2
8°	22865.7	22496.3	21567.2	20738.7	20352.5	20598.7	21360.1	22278.0	22686.7
9°	22485.1	22076.6	21097.0	20223.7	19809.6	20100.6	20923.5	21936.6	22406.8
10°	22031.8	21595.1	20576.4	19686.4	19311.4	19585.6	20453.3	21539.1	22026.2
11°	21499.9	21080.2	20055.8	19182.7	18824.4	19093.1	19983.1	21063.4	21589.5
12°	20923.5	20537.2	19524.1	18695.7	18359.8	18617.3	19479.4	20570.8	21091.4
13°	20346.9	19960.6	19009.2	18225.5	17917.6	18163.8	18986.7	20033.5	20554.0
14°	19725.6	19372.9	18494.2	17777.6	17497.8	17732.8	18483.0	19490.4	19983.1
15°	19081.9	18801.9	18001.5	17346.6	17083.6	17307.4	18001.5	18930.7	19406.5
16°	18477.3	18219.9	17525.7	16921.2	16703.0	16882.0	17514.6	18371.1	18824.4
17°	17861.6	17626.5	17049.9	16501.4	16305.5	16479.1	17016.4	17805.7	18214.2
18°	17245.9	17049.9	16529.5	16059.3	15885.8	16042.4	16523.9	17234.7	17604.1
19°	16674.9	16495.8	16053.7	15656.2	15499.5	15639.4	16092.8	16686.2	17055.5
20°	16087.2	15941.6	15555.4	15230.8	15085.2	15214.0	15566.6	16143.2	16467.8
21°	15521.9	15393.1	15057.3	14782.9	14665.4	14771.8	15096.4	15617.0	15902.5
22°	14934.1	14861.4	14559.1	14329.6	14251.3	14318.4	14615.0	15062.9	15331.6
23°	14357.5	14290.4	14060.9	13870.6	13803.4	13870.6	14133.7	14536.7	14777.5
24°	13775.5	13702.7	13534.8	13411.5	13355.7	13411.5	13635.5	13976.9	14206.5
25°	13109.4	13098.2	12980.7	12913.4	12885.5	12947.0	13103.8	13400.5	13590.7
26°	12471.2	12437.6	12404.1	12392.8	12398.4	12432.0	12560.7	12784.7	12935.9
27°	11687.6	11738.0	11788.3	11855.5	11877.9	11905.9	11967.4	12129.7	12241.8
28°	10937.5	11032.7	11155.8	11290.1	11351.8	11351.8	11357.3	11446.8	11542.0
29°	10193.1	10293.8	10489.7	10691.2	10775.2	10763.9	10719.2	10758.3	10814.3
30°	9415.0	9543.8	9806.9	10070.0	10193.1	10148.3	10064.3	10025.2	10058.7
31°	8653.8	8782.5	9073.6	9359.0	9521.3	9471.0	9325.4	9297.5	9314.2
32°	7926.1	8054.8	8323.4	8625.7	8810.5	8743.3	8592.1	8547.4	8553.0
33°	7220.7	7321.6	7567.8	7847.8	7998.8	7982.0	7858.9	7803.0	7808.5
34°	6554.7	6638.7	6823.3	7036.1	7181.6	7176.0	7086.4	7092.0	7108.8
35°	5961.4	6006.2	6095.6	6213.3	6302.8	6353.1	6364.3	6409.1	6465.1
37.5°	4506.0	4522.7	4416.5	4298.8	4276.5	4422.1	4673.9	4892.3	4976.2
40°	3123.4	3084.2	2949.9	2742.8	2681.2	2843.6	3162.6	3470.5	3582.4
42.5°	1942.4	1925.5	1841.6	1684.9	1628.9	1724.1	1964.7	2199.9	2311.8
45°	1158.7	1136.2	1091.4	1030.0	1018.7	1057.9	1181.0	1315.4	1377.0
47.5°	666.0	660.6	632.5	610.2	604.5	632.5	688.5	766.8	783.7
50°	363.8	358.3	352.7	352.7	352.7	369.4	397.5	419.8	431.0
52.5°	179.1	184.8	179.1	184.8	190.4	201.5	195.9	218.3	218.3
55°	89.6	84.0	95.2	106.4	106.4	106.4	106.4	106.4	100.8
57.5°	67.1	72.7	61.6	67.1	61.6	61.6	56.0	61.6	67.1



TEST NUMBER: P250146

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBM0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	44.8	39.2	44.8	50.4	56.0	50.4	39.2	44.8	50.4
62.5°	22.3	22.3	22.3	33.6	50.4	39.2	33.6	27.9	27.9
65°	33.6	22.3	27.9	33.6	27.9	27.9	22.3	27.9	22.3
67.5°	16.8	27.9	16.8	11.2	16.8	22.3	16.8	11.2	11.2
70°	0.0	5.6	5.6	16.8	16.8	16.8	16.8	11.2	11.2
72.5°	5.6	5.6	5.6	11.2	5.6	11.2	5.6	5.6	11.2
75°	0.0	0.0	5.6	5.6	0.0	5.6	0.0	0.0	0.0
77.5°	5.6	0.0	5.6	5.6	0.0	0.0	0.0	5.6	0.0
80°	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	5.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)