

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: P247938

Luminaire Tested: **LD8B175D010 ER8B175950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16937.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

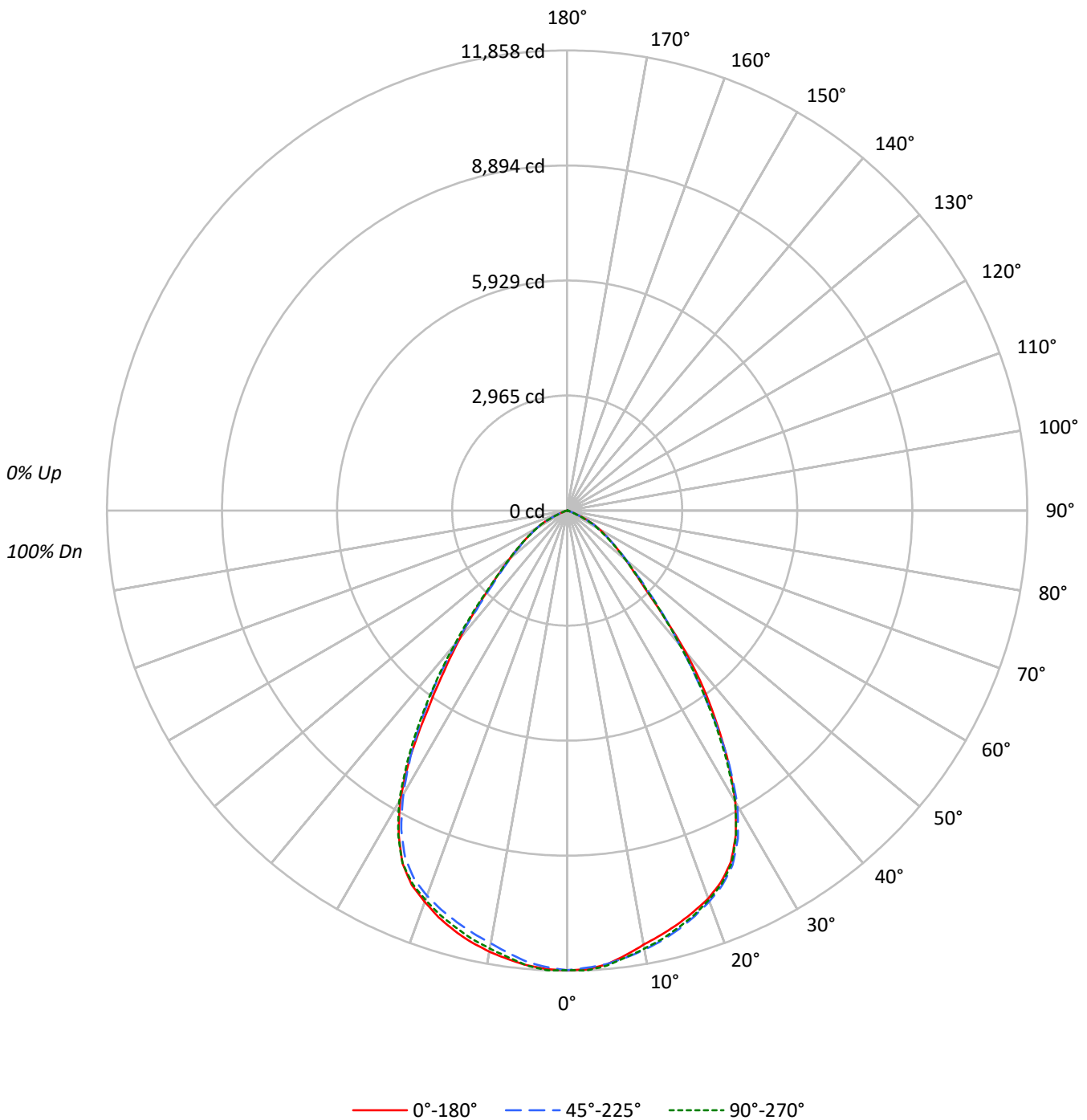
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247938

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P247938

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBW0H

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	365219	365219	365219
5°	363327	364358	364163
10°	355564	358854	361366
15°	352078	354903	357860
20°	349060	350323	352066
25°	339884	341194	341480
30°	308504	308208	306132
35°	254004	248320	235897
40°	189930	181384	173168
45°	122995	126218	123357
50°	94147	93648	93250
55°	73771	72427	71815
60°	58688	55475	56245
65°	38511	34031	34410
70°	13794	12676	13145
75°	4956	6076	4956
80°	3143	4439	3694
85°	743	2194	1486



TEST NUMBER: P247938

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.3	6.5
10°-20°	3127.5	18.5
20°-30°	4534.3	26.8
30°-40°	4075.8	24.1
40°-50°	2296.7	13.6
50°-60°	1223.7	7.2
60°-70°	489.1	2.9
70°-80°	65.1	0.4
80°-90°	15.4	0.1
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°	8771.2	51.8
0°-40°	12847.0	75.9
0°-60°	16367.4	96.6
0°-90°	16937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16937.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11844	11844	11844	11844	11844	
5°	11738	11727	11771	11678	11765	###
15°	11029	11157	11117	10980	11210	3112
25°	9990	10083	10028	9873	10036	4534
35°	6748	6651	6596	6505	6266	4187
45°	2820	2973	2894	2758	2829	2317
55°	1372	1376	1347	1316	1336	1251
65°	528	503	466	453	472	522
75°	42	53	51	50	42	62
85°	2	12	6	18	4	6
90°	0	0	0	0	0	



TEST NUMBER: P247938

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBW0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11843.8	11843.8	11843.8	11843.8	11843.8	11843.8	11843.8	11843.8	11843.8
2.5°	11835.4	11810.4	11791.7	11827.1	11858.3	11773.0	11779.2	11816.7	11829.2
5°	11737.6	11714.7	11727.2	11756.3	11770.9	11663.6	11678.2	11741.7	11764.6
7.5°	11554.3	11572.0	11616.8	11654.3	11610.5	11484.6	11505.4	11614.7	11659.5
10°	11355.5	11397.1	11490.8	11534.5	11460.6	11299.3	11323.2	11470.0	11540.8
12.5°	11197.2	11243.0	11340.9	11374.2	11308.6	11134.8	11159.7	11311.7	11396.1
15°	11028.6	11070.2	11156.6	11183.7	11117.1	10956.7	10979.6	11125.4	11209.7
17.5°	10838.0	10874.5	10951.5	10976.5	10918.2	10748.5	10784.9	10920.3	10994.2
20°	10637.1	10663.1	10717.3	10731.8	10675.6	10547.6	10564.2	10680.8	10728.7
22.5°	10363.3	10396.6	10446.6	10462.2	10410.1	10269.6	10285.2	10399.7	10451.8
25°	9989.5	10038.5	10083.2	10103.0	10028.0	9841.7	9872.9	9970.8	10036.4
27.5°	9409.6	9449.2	9528.3	9530.4	9427.3	9233.7	9259.7	9385.7	9402.3
30°	8664.2	8700.6	8770.4	8754.8	8655.9	8425.8	8446.6	8569.4	8597.6
32.5°	7751.1	7764.7	7783.4	7778.2	7657.4	7549.1	7506.5	7521.0	7531.4
35°	6747.5	6771.4	6650.7	6585.1	6596.5	6605.9	6504.9	6355.0	6266.5
37.5°	5775.1	5660.6	5511.7	5460.7	5555.4	5586.6	5495.0	5271.2	5188.9
40°	4718.3	4616.3	4498.7	4508.0	4506.0	4527.8	4412.3	4330.0	4301.9
42.5°	3631.4	3632.5	3709.5	3656.4	3646.0	3494.0	3449.2	3495.0	3545.0
45°	2820.4	2914.1	2973.4	2957.8	2894.3	2757.9	2757.9	2838.1	2828.7
47.5°	2321.7	2355.0	2399.8	2396.7	2350.8	2250.9	2267.6	2322.7	2350.8
50°	1962.5	1977.1	1997.9	1980.2	1952.1	1889.6	1888.6	1927.1	1943.8
52.5°	1641.8	1650.2	1645.0	1635.6	1620.0	1586.7	1576.3	1608.5	1612.7
55°	1372.2	1387.8	1376.4	1350.3	1347.2	1317.0	1316.0	1342.0	1335.8
57.5°	1143.1	1127.5	1111.9	1090.1	1086.9	1077.6	1088.0	1092.1	1085.9
60°	951.6	952.6	922.4	901.6	899.5	886.0	900.6	912.0	912.0
62.5°	766.3	762.1	743.4	712.1	717.3	712.1	718.4	720.5	711.1
65°	527.8	528.9	502.9	465.4	466.4	462.3	452.9	467.5	471.6
67.5°	281.1	279.0	259.2	245.7	240.5	242.6	253.0	256.1	244.7
70°	153.0	147.8	152.0	137.4	140.6	135.3	140.6	148.9	145.8
72.5°	78.1	83.3	75.0	68.7	77.0	76.0	88.5	81.2	72.9
75°	41.6	44.8	53.1	48.9	51.0	48.9	50.0	46.9	41.6
77.5°	30.2	33.3	38.5	37.5	36.4	34.4	38.5	42.7	34.4
80°	17.7	21.9	23.9	28.1	25.0	28.1	32.3	26.0	20.8
82.5°	11.5	17.7	17.7	18.7	27.1	17.7	29.2	26.0	20.8
85°	2.1	3.1	12.5	7.3	6.2	18.7	17.7	13.5	4.2
87.5°	0.0	7.3	16.7	8.3	13.5	12.5	17.7	18.7	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)