

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: P250174

Luminaire Tested: **LD8B175D010 ER8B175935 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250174
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 ER8B175935 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15572.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

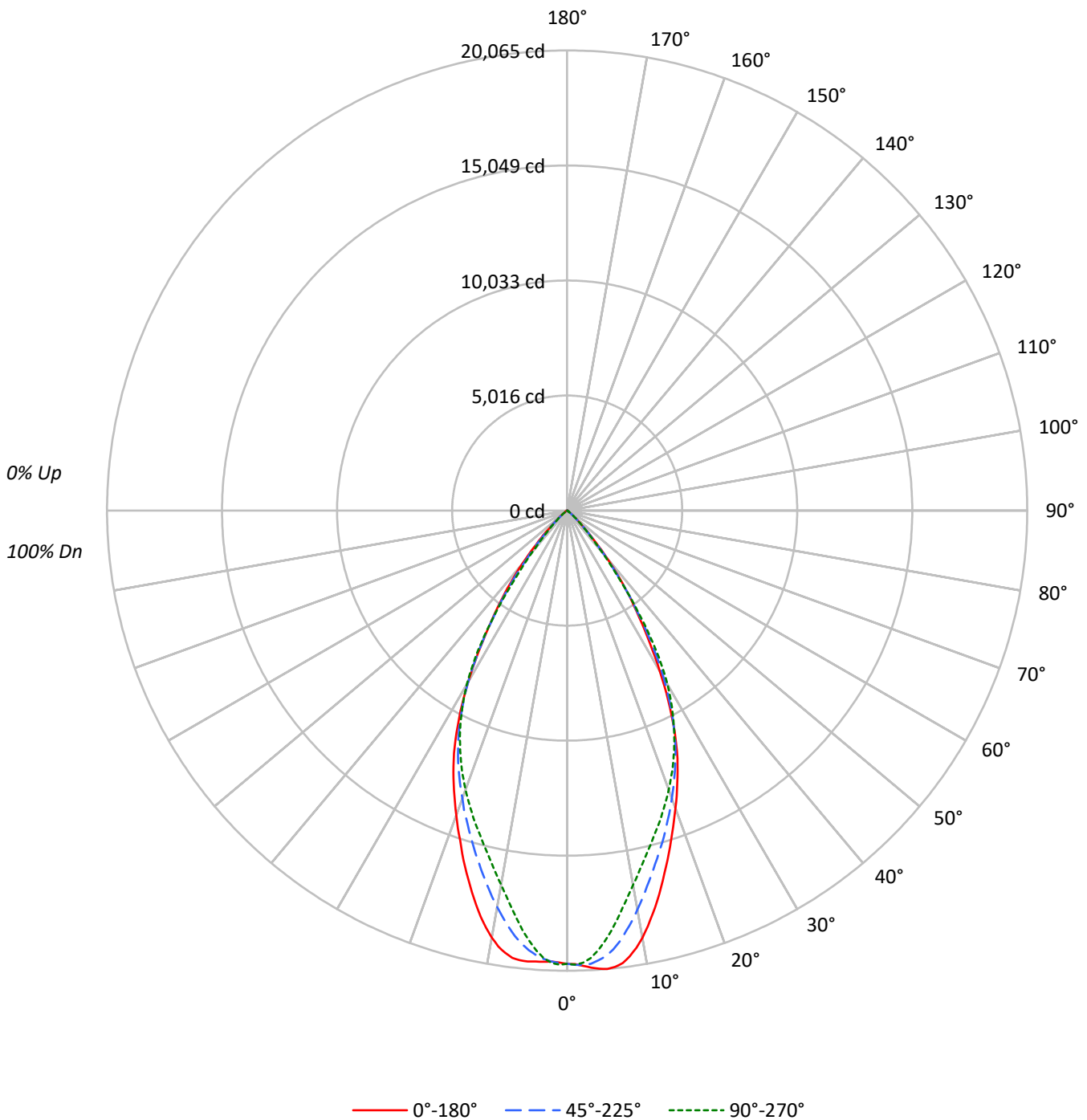
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250174

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250174

CATALOG NUMBER: LD8B175D010 ER8B175935 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	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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	609396	609396	609396
5°	621094	583466	610978
10°	592167	519050	592016
15°	522904	468148	531801
20°	453150	424926	463871
25°	382870	376330	396929
30°	287763	311544	307439
35°	192633	203666	208910
40°	107925	92644	123785
45°	43374	38136	51546
50°	14982	14521	17750
55°	4134	4908	4650
60°	2368	2966	2670
65°	2101	1751	1401
70°	0	1307	866
75°	0	0	0
80°	0	0	852
85°	0	0	0



TEST NUMBER: P250174

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBM0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1794.0	11.5
10°-20°	4339.1	27.9
20°-30°	5085.7	32.7
30°-40°	3346.1	21.5
40°-50°	873.2	5.6
50°-60°	107.4	0.7
60°-70°	22.3	0.1
70°-80°	4.1	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°	11218.8	72.0
0°-40°	14564.9	93.5
0°-60°	15545.4	99.8
0°-90°	15572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15572.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19762	19762	19762	19762	19762	
5°	20065	19493	18849	19238	19738	###
15°	16380	15452	14664	15452	16658	4566
25°	11253	11142	11061	11248	11666	5073
35°	5117	5232	5410	5463	5550	3204
45°	995	937	874	1014	1182	891
55°	77	82	91	91	86	102
65°	29	24	24	19	19	20
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250174

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBM0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19762.3	19762.3	19762.3	19762.3	19762.3	19762.3	19762.3	19762.3	19762.3
1°	19776.6	19805.5	19815.0	19844.0	19800.7	19771.9	19733.5	19704.5	19709.4
2°	19863.1	19877.6	19824.7	19805.5	19728.6	19704.5	19675.7	19670.9	19675.7
3°	19954.5	19925.6	19786.2	19656.6	19541.2	19526.8	19579.7	19656.6	19699.7
4°	20026.5	19949.7	19656.6	19416.3	19233.7	19219.3	19430.7	19627.6	19709.4
5°	20065.0	19925.6	19493.1	19089.5	18849.4	18940.6	19238.5	19589.2	19738.2
6°	20012.1	19805.5	19243.3	18705.2	18431.3	18551.4	18988.7	19498.0	19719.0
7°	19877.6	19613.3	18921.4	18287.2	17950.8	18138.2	18695.6	19344.2	19646.9
8°	19627.6	19310.6	18513.0	17801.8	17470.3	17681.7	18335.2	19123.2	19474.0
9°	19300.9	18950.2	18109.4	17359.8	17004.3	17254.1	17960.4	18830.1	19233.7
10°	18911.8	18537.0	17662.5	16898.6	16576.7	16812.1	17556.8	18488.9	18907.0
11°	18455.3	18094.9	17215.7	16466.2	16158.6	16389.3	17153.2	18080.6	18532.2
12°	17960.4	17628.9	16759.3	16048.1	15759.8	15980.9	16720.8	17657.7	18104.6
13°	17465.5	17134.0	16317.2	15644.5	15380.2	15591.6	16297.9	17196.5	17643.3
14°	16932.2	16629.5	15875.2	15260.1	15019.9	15221.6	15865.5	16730.3	17153.2
15°	16379.6	16139.3	15452.3	14890.1	14664.4	14856.5	15452.3	16249.9	16658.3
16°	15860.7	15639.7	15043.9	14524.9	14337.6	14491.3	15034.3	15769.5	16158.6
17°	15332.1	15130.4	14635.4	14164.6	13996.5	14145.4	14606.6	15284.2	15634.9
18°	14803.7	14635.4	14188.7	13785.1	13636.1	13770.6	14183.9	14794.0	15111.1
19°	14313.5	14159.8	13780.3	13439.1	13304.6	13424.6	13813.9	14323.2	14640.3
20°	13809.1	13684.1	13352.6	13073.9	12949.0	13059.5	13362.2	13857.2	14135.8
21°	13323.8	13213.2	12925.0	12689.5	12588.6	12680.0	12958.6	13405.5	13650.5
22°	12819.3	12756.8	12497.4	12300.3	12233.1	12290.7	12545.4	12929.8	13160.5
23°	12324.3	12266.7	12069.7	11906.4	11848.7	11906.4	12132.2	12478.1	12684.8
24°	11824.7	11762.2	11618.1	11512.3	11464.3	11512.3	11704.5	11997.6	12194.7
25°	11252.9	11243.3	11142.4	11084.7	11060.7	11113.5	11248.1	11502.8	11666.1
26°	10705.1	10676.3	10647.5	10637.8	10642.7	10671.5	10782.0	10974.2	11104.0
27°	10032.5	10075.8	10118.9	10176.6	10195.8	10219.9	10272.7	10412.0	10508.2
28°	9388.6	9470.3	9576.0	9691.3	9744.2	9744.2	9748.9	9825.8	9907.5
29°	8749.6	8836.0	9004.3	9177.2	9249.3	9239.6	9201.2	9234.8	9282.9
30°	8081.7	8192.2	8418.1	8643.9	8749.6	8711.2	8639.1	8605.5	8634.3
31°	7428.3	7538.8	7788.6	8033.6	8173.0	8129.8	8004.8	7980.8	7995.2
32°	6803.7	6914.2	7144.7	7404.2	7562.8	7505.2	7375.4	7336.9	7341.8
33°	6198.2	6284.7	6496.1	6736.4	6866.1	6851.6	6745.9	6698.0	6702.7
34°	5626.5	5698.5	5857.0	6039.7	6164.6	6159.8	6082.9	6087.7	6102.1
35°	5117.2	5155.6	5232.4	5333.4	5410.3	5453.4	5463.1	5501.5	5549.6
37.5°	3867.9	3882.3	3791.0	3690.0	3670.9	3795.9	4012.1	4199.5	4271.5
40°	2681.1	2647.5	2532.1	2354.4	2301.5	2440.9	2714.7	2979.0	3075.1
42.5°	1667.3	1652.9	1580.8	1446.3	1398.2	1479.9	1686.5	1888.3	1984.4
45°	994.6	975.3	936.9	884.1	874.5	908.1	1013.8	1129.1	1182.0
47.5°	571.7	567.0	542.9	523.8	518.9	542.9	591.0	658.3	672.7
50°	312.3	307.6	302.7	302.7	302.7	317.1	341.2	360.3	370.0
52.5°	153.8	158.6	153.8	158.6	163.4	172.9	168.1	187.4	187.4
55°	76.9	72.1	81.7	91.3	91.3	91.3	91.3	91.3	86.5
57.5°	57.6	62.4	52.9	57.6	52.9	52.9	48.1	52.9	57.6



TEST NUMBER: P250174

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBM0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	38.4	33.6	38.4	43.3	48.1	43.3	33.6	38.4	43.3
62.5°	19.2	19.2	19.2	28.8	43.3	33.6	28.8	24.0	24.0
65°	28.8	19.2	24.0	28.8	24.0	24.0	19.2	24.0	19.2
67.5°	14.5	24.0	14.5	9.6	14.5	19.2	14.5	9.6	9.6
70°	0.0	4.8	4.8	14.5	14.5	14.5	14.5	9.6	9.6
72.5°	4.8	4.8	4.8	9.6	4.8	9.6	4.8	4.8	9.6
75°	0.0	0.0	4.8	4.8	0.0	4.8	0.0	0.0	0.0
77.5°	4.8	0.0	4.8	4.8	0.0	0.0	0.0	4.8	0.0
80°	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	4.8
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)