

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: P247980

Luminaire Tested: **LD8B175D010 ER8B175930 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16435.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

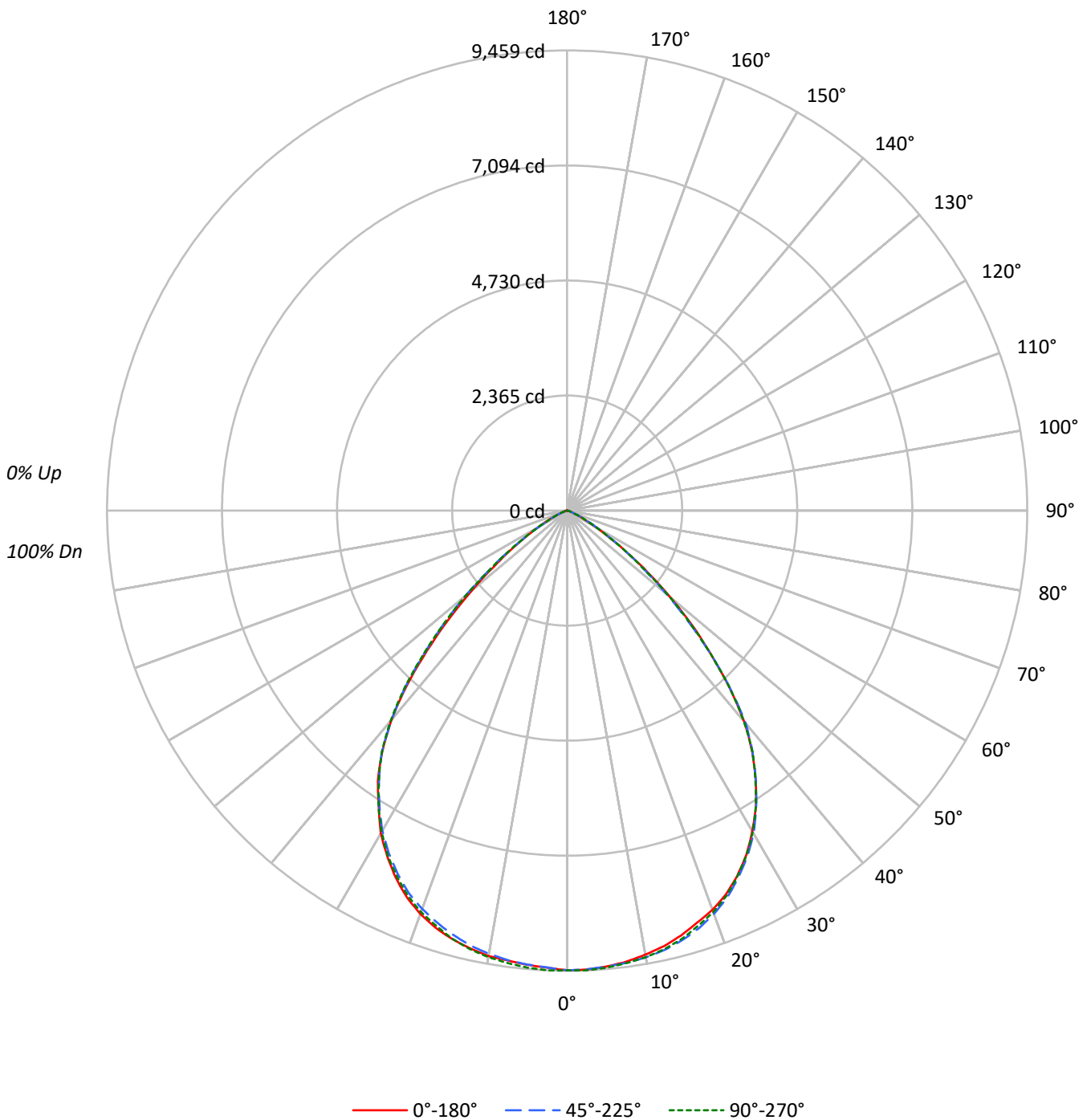
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.7	5.4
10°-20°	2566.4	15.6
20°-30°	3812.7	23.2
30°-40°	4201.7	25.6
40°-50°	3200.3	19.5
50°-60°	1379.6	8.4
60°-70°	316.9	1.9
70°-80°	52.6	0.3
80°-90°	9.9	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°	7273.9	44.3
0°-40°	11475.6	69.8
0°-60°	16055.5	97.7
0°-90°	16435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16435.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9450	9450	9450	9450	9450	
5°	9407	9406	9430	9366	9373	894
15°	9041	9142	9114	9032	9120	2550
25°	8278	8325	8288	8239	8334	3799
35°	6758	6762	6746	6741	6786	4196
45°	4178	4169	4177	4154	4072	3223
55°	1501	1500	1490	1499	1422	1400
65°	277	304	288	286	293	309
75°	57	57	57	58	49	52
85°	8	6	6	17	12	8
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°	9450.1	9450.1	9450.1	9450.1	9450.1	9450.1	9450.1	9450.1	9450.1
2.5°	9439.9	9440.8	9434.3	9448.3	9459.4	9423.1	9401.7	9450.1	9403.5
5°	9407.3	9413.8	9406.3	9424.0	9429.6	9399.8	9366.3	9418.4	9372.8
7.5°	9351.4	9364.4	9375.6	9396.1	9381.2	9343.9	9321.5	9383.0	9327.1
10°	9267.4	9300.0	9324.3	9355.1	9318.8	9278.6	9251.6	9335.5	9298.2
12.5°	9173.3	9210.6	9251.6	9288.8	9233.9	9175.2	9161.1	9250.6	9217.1
15°	9040.9	9075.4	9141.5	9177.0	9113.6	9046.5	9032.5	9146.2	9120.1
17.5°	8885.2	8945.8	9001.7	9029.7	8949.5	8891.7	8884.3	9001.7	8991.4
20°	8731.4	8764.0	8821.8	8859.0	8782.6	8713.6	8710.8	8832.0	8821.8
22.5°	8536.5	8565.3	8603.6	8638.1	8566.3	8508.5	8512.2	8612.0	8610.2
25°	8278.2	8297.8	8324.9	8363.1	8287.6	8246.5	8239.0	8345.4	8334.2
27.5°	7977.0	7990.2	8020.9	8053.5	7988.2	7951.9	7938.8	8045.1	8007.9
30°	7610.7	7640.5	7661.9	7675.9	7627.4	7605.1	7595.8	7679.6	7661.9
32.5°	7221.9	7232.1	7233.0	7267.6	7216.3	7184.6	7184.6	7251.7	7211.6
35°	6758.5	6756.6	6762.2	6799.5	6746.4	6757.6	6740.8	6793.9	6785.5
37.5°	6250.4	6258.8	6260.7	6290.5	6260.7	6268.1	6261.6	6270.0	6243.0
40°	5666.8	5703.1	5715.2	5709.6	5651.9	5632.2	5615.4	5646.3	5611.7
42.5°	4942.3	4959.1	4961.0	4964.7	4948.9	4946.1	4925.6	4938.6	4884.5
45°	4177.9	4185.3	4169.4	4166.6	4176.8	4192.8	4154.5	4124.6	4071.5
47.5°	3479.5	3453.4	3381.6	3407.7	3418.8	3459.0	3417.9	3337.8	3293.9
50°	2744.8	2717.8	2662.7	2674.9	2718.6	2779.3	2731.8	2620.8	2562.0
52.5°	2096.8	2066.0	2004.6	2015.7	2028.8	2074.4	2049.3	1973.7	1916.9
55°	1501.0	1479.6	1500.1	1483.3	1489.9	1533.6	1499.2	1436.8	1421.8
57.5°	1014.4	1026.5	1043.3	1046.1	1033.0	1020.0	1015.3	991.1	1004.1
60°	672.3	681.6	709.5	717.9	698.3	670.4	676.0	676.0	688.1
62.5°	434.5	442.9	475.5	481.1	453.1	445.7	445.7	442.9	465.2
65°	276.9	293.7	303.9	289.0	288.1	277.8	286.2	286.2	292.8
67.5°	165.9	151.0	161.3	167.8	161.3	152.9	151.0	152.0	161.3
70°	96.1	92.3	98.9	95.1	98.9	85.8	96.1	91.4	94.2
72.5°	61.5	60.6	60.6	64.3	60.6	58.7	62.4	54.0	59.6
75°	56.8	56.8	56.8	49.4	56.8	55.0	57.8	43.8	49.4
77.5°	22.4	26.1	31.7	30.7	30.7	28.9	26.1	22.4	34.5
80°	20.5	18.6	25.2	29.8	18.6	22.4	25.2	15.8	16.8
82.5°	10.2	9.3	12.1	12.1	12.1	6.5	16.8	10.2	8.4
85°	8.4	3.7	5.6	5.6	5.6	7.5	16.8	4.7	12.1
87.5°	1.9	2.8	4.7	4.7	5.6	9.3	16.8	3.7	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)