

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: P250202

Luminaire Tested: **LD8B175D010 ER8B175930 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250202
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 ER8B175930 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15079.7 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

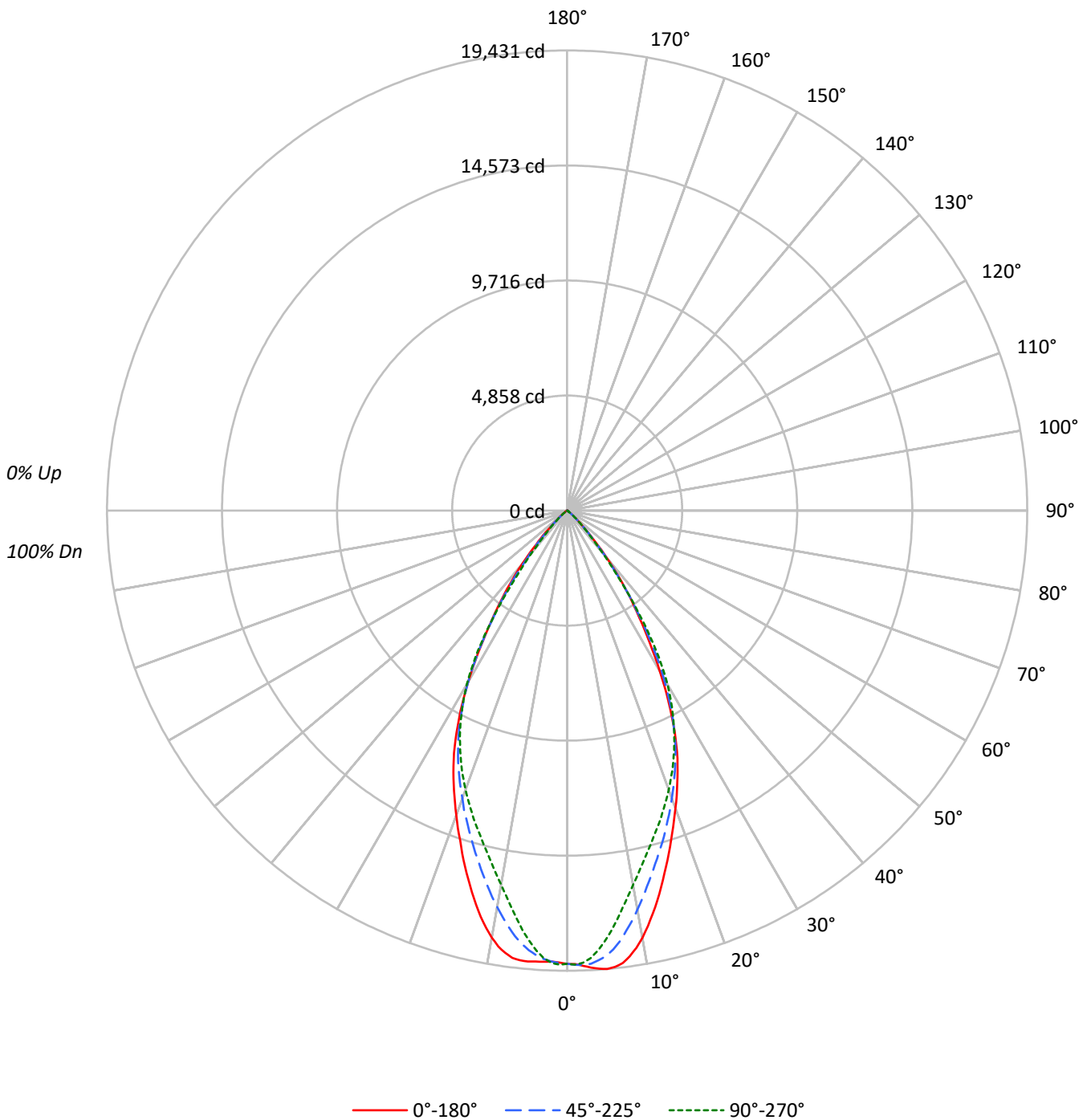
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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°	1737.3	11.5
10°-20°	4201.9	27.9
20°-30°	4924.9	32.7
30°-40°	3240.3	21.5
40°-50°	845.6	5.6
50°-60°	104.0	0.7
60°-70°	21.6	0.1
70°-80°	4.0	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°	10864.1	72.0
0°-40°	14104.4	93.5
0°-60°	15053.9	99.8
0°-90°	15079.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15079.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19138	19138	19138	19138	19138	
5°	19431	18877	18254	18630	19114	###
15°	15862	14964	14201	14964	16132	4421
25°	10897	10790	10711	10892	11297	4913
35°	4955	5067	5239	5290	5374	3103
45°	963	907	847	982	1145	863
55°	74	79	88	88	84	99
65°	28	23	23	19	19	19
75°	0	5	0	0	0	2
85°	0	0	0	0	0	0
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°	19137.5	19137.5	19137.5	19137.5	19137.5	19137.5	19137.5	19137.5	19137.5
1°	19151.4	19179.4	19188.6	19216.6	19174.7	19146.8	19109.6	19081.5	19086.3
2°	19235.1	19249.1	19197.9	19179.4	19104.9	19081.5	19053.6	19049.0	19053.6
3°	19323.6	19295.7	19160.7	19035.1	18923.5	18909.5	18960.7	19035.1	19077.0
4°	19393.4	19319.0	19035.1	18802.4	18625.6	18611.7	18816.4	19007.1	19086.3
5°	19430.6	19295.7	18876.9	18486.1	18253.5	18341.8	18630.2	18969.9	19114.2
6°	19379.4	19179.4	18634.9	18113.9	17848.6	17964.9	18388.3	18881.6	19095.6
7°	19249.1	18993.2	18323.2	17709.0	17383.2	17564.7	18104.5	18732.6	19025.8
8°	19007.1	18700.1	17927.7	17239.1	16918.0	17122.7	17755.5	18518.6	18858.4
9°	18690.8	18351.1	17536.9	16811.0	16466.7	16708.6	17392.7	18234.7	18625.6
10°	18313.9	17950.9	17104.1	16364.4	16052.6	16280.5	17001.8	17904.4	18309.2
11°	17871.8	17522.9	16671.4	15945.6	15647.8	15871.1	16611.0	17509.0	17946.3
12°	17392.7	17071.6	16229.4	15540.8	15261.6	15475.6	16192.2	17099.5	17532.2
13°	16913.3	16592.3	15801.4	15149.9	14893.9	15098.6	15782.7	16652.8	17085.5
14°	16396.9	16103.7	15373.3	14777.6	14545.0	14740.4	15364.0	16201.5	16611.0
15°	15861.8	15629.1	14963.8	14419.3	14200.7	14386.8	14963.8	15736.1	16131.6
16°	15359.3	15145.3	14568.3	14065.7	13884.4	14033.1	14559.0	15270.9	15647.8
17°	14847.4	14652.0	14172.7	13716.8	13554.0	13698.2	14144.9	14801.0	15140.6
18°	14335.7	14172.7	13740.1	13349.3	13205.0	13335.3	13735.4	14326.3	14633.4
19°	13861.1	13712.1	13344.6	13014.2	12884.0	13000.2	13377.1	13870.4	14177.4
20°	13372.5	13251.5	12930.4	12660.6	12539.6	12646.6	12939.7	13419.0	13688.9
21°	12902.5	12795.5	12516.3	12288.3	12190.7	12279.1	12548.9	12981.6	13218.9
22°	12414.0	12353.5	12102.3	11911.5	11846.4	11902.1	12148.7	12521.0	12744.4
23°	11934.7	11878.9	11688.1	11529.9	11474.1	11529.9	11748.6	12083.6	12283.8
24°	11450.8	11390.4	11250.8	11148.3	11101.9	11148.3	11334.4	11618.3	11809.1
25°	10897.1	10887.8	10790.2	10734.2	10711.0	10762.2	10892.5	11139.2	11297.2
26°	10366.7	10338.8	10310.8	10301.5	10306.2	10334.1	10441.1	10627.3	10753.0
27°	9715.4	9757.2	9799.0	9854.9	9873.4	9896.7	9947.9	10082.8	10176.0
28°	9091.8	9170.9	9273.2	9384.9	9436.1	9436.1	9440.7	9515.2	9594.3
29°	8473.0	8556.7	8719.6	8887.1	8956.9	8947.5	8910.3	8942.9	8989.4
30°	7826.3	7933.2	8151.9	8370.6	8473.0	8435.7	8366.0	8333.4	8361.3
31°	7193.5	7300.5	7542.4	7779.6	7914.6	7872.8	7751.7	7728.5	7742.4
32°	6588.6	6695.6	6918.8	7170.1	7323.7	7267.9	7142.2	7105.0	7109.6
33°	6002.3	6086.0	6290.7	6523.4	6649.0	6635.0	6532.6	6486.2	6490.8
34°	5448.6	5518.3	5671.8	5848.8	5969.7	5965.1	5890.5	5895.2	5909.2
35°	4955.4	4992.6	5066.9	5164.8	5239.2	5281.0	5290.3	5327.6	5374.2
37.5°	3745.6	3759.5	3671.2	3573.4	3554.8	3675.9	3885.2	4066.7	4136.5
40°	2596.3	2563.7	2452.1	2279.9	2228.7	2363.7	2628.9	2884.8	2977.8
42.5°	1614.6	1600.6	1530.8	1400.6	1354.1	1433.1	1633.2	1828.7	1921.6
45°	963.2	944.4	907.2	856.1	846.8	879.4	981.8	1093.4	1144.7
47.5°	553.7	549.1	525.7	507.3	502.5	525.7	572.3	637.4	651.4
50°	302.3	297.8	293.1	293.1	293.1	307.0	330.4	349.0	358.3
52.5°	148.9	153.6	148.9	153.6	158.3	167.5	162.8	181.5	181.5
55°	74.4	69.8	79.1	88.4	88.4	88.4	88.4	88.4	83.7
57.5°	55.8	60.4	51.2	55.8	51.2	51.2	46.5	51.2	55.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	37.2	32.5	37.2	41.9	46.5	41.9	32.5	37.2	41.9
62.5°	18.6	18.6	18.6	27.9	41.9	32.5	27.9	23.2	23.2
65°	27.9	18.6	23.2	27.9	23.2	23.2	18.6	23.2	18.6
67.5°	14.0	23.2	14.0	9.3	14.0	18.6	14.0	9.3	9.3
70°	0.0	4.7	4.7	14.0	14.0	14.0	14.0	9.3	9.3
72.5°	4.7	4.7	4.7	9.3	4.7	9.3	4.7	4.7	9.3
75°	0.0	0.0	4.7	4.7	0.0	4.7	0.0	0.0	0.0
77.5°	4.7	0.0	4.7	4.7	0.0	0.0	0.0	4.7	0.0
80°	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	4.7
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)