

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: P250191

Luminaire Tested: **LD8B90D010 ER8B909727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250191
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: LD8B90D010 ER8B909727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6584.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

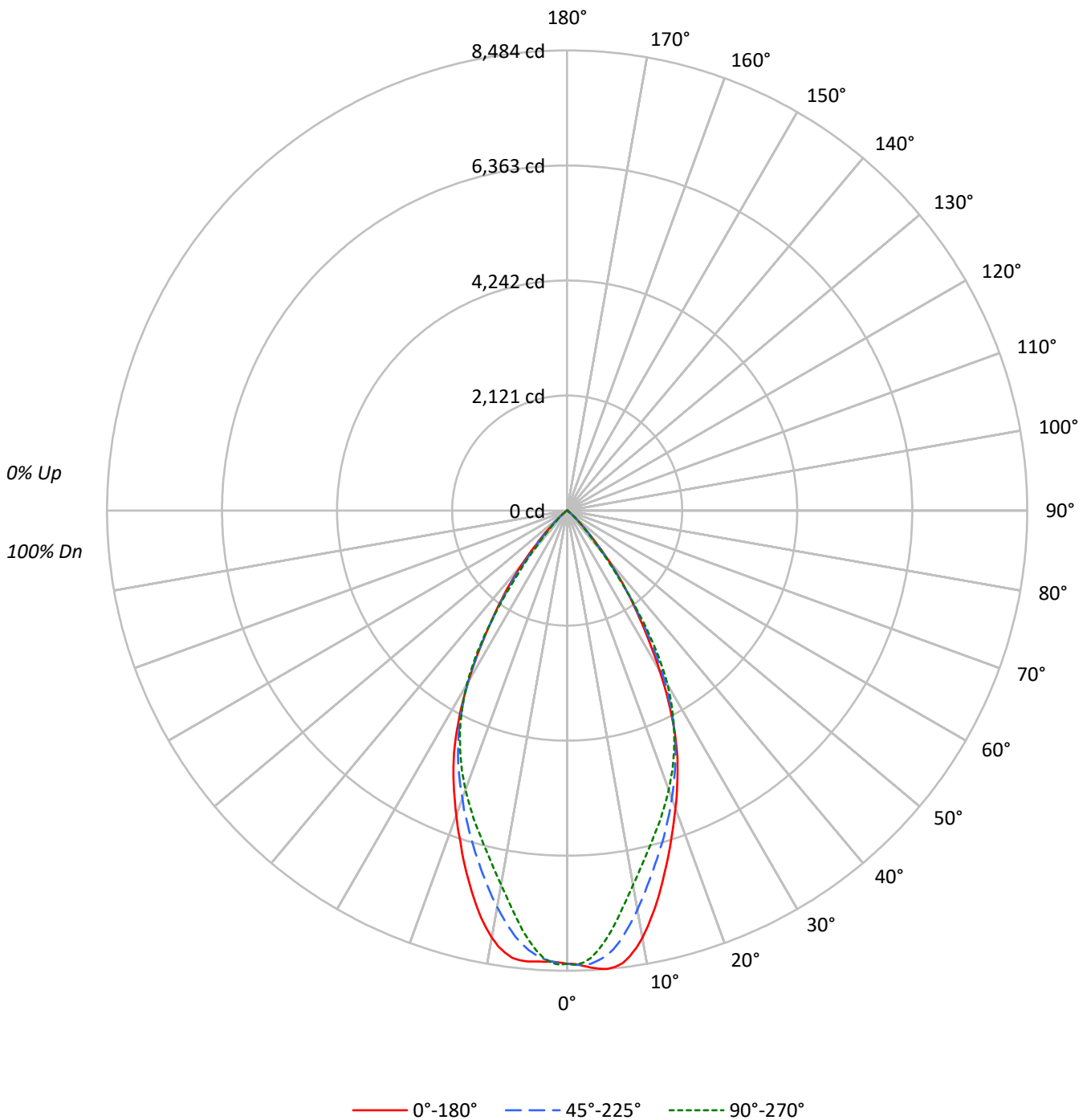
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	758.5	11.5
10°-20°	1834.6	27.9
20°-30°	2150.3	32.7
30°-40°	1414.8	21.5
40°-50°	369.2	5.6
50°-60°	45.4	0.7
60°-70°	9.4	0.1
70°-80°	1.7	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°	4743.4	72.0
0°-40°	6158.2	93.5
0°-60°	6572.8	99.8
0°-90°	6584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8356	8356	8356	8356	8356	
5°	8484	8242	7970	8134	8346	795
15°	6926	6533	6200	6533	7043	1930
25°	4758	4711	4677	4756	4932	2145
35°	2164	2212	2288	2310	2346	1355
45°	420	396	370	429	500	377
55°	32	34	39	39	37	43
65°	12	10	10	8	8	9
75°	0	2	0	0	0	1
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°	8355.7	8355.7	8355.7	8355.7	8355.7	8355.7	8355.7	8355.7	8355.7
1°	8361.7	8374.0	8378.0	8390.2	8371.9	8359.8	8343.5	8331.3	8333.3
2°	8398.3	8404.4	8382.1	8374.0	8341.5	8331.3	8319.1	8317.1	8319.1
3°	8437.0	8424.7	8365.8	8311.0	8262.2	8256.1	8278.5	8311.0	8329.2
4°	8467.4	8434.9	8311.0	8209.4	8132.2	8126.1	8215.5	8298.8	8333.3
5°	8483.7	8424.7	8241.9	8071.3	7969.7	8008.3	8134.2	8282.5	8345.5
6°	8461.3	8374.0	8136.3	7908.8	7792.9	7843.7	8028.6	8243.9	8337.4
7°	8404.4	8292.7	8000.2	7732.0	7589.8	7669.0	7904.7	8178.9	8306.9
8°	8298.8	8164.7	7827.5	7526.8	7386.6	7476.0	7752.3	8085.5	8233.8
9°	8160.6	8012.3	7656.8	7339.9	7189.6	7295.2	7593.9	7961.5	8132.2
10°	7996.1	7837.6	7467.9	7144.9	7008.8	7108.3	7423.2	7817.3	7994.1
11°	7803.1	7650.7	7279.0	6962.1	6832.0	6929.6	7252.6	7644.7	7835.6
12°	7593.9	7453.7	7086.0	6785.3	6663.4	6756.9	7069.7	7465.9	7654.8
13°	7384.6	7244.4	6899.1	6614.7	6502.9	6592.3	6890.9	7270.9	7459.7
14°	7159.1	7031.1	6712.2	6452.1	6350.6	6435.9	6708.1	7073.8	7252.6
15°	6925.5	6823.9	6533.4	6295.7	6200.2	6281.5	6533.4	6870.6	7043.3
16°	6706.1	6612.6	6360.7	6141.3	6062.1	6127.1	6356.7	6667.5	6832.0
17°	6482.6	6397.3	6188.0	5988.9	5917.8	5980.8	6175.8	6462.3	6610.6
18°	6259.1	6188.0	5999.1	5828.5	5765.5	5822.4	5997.1	6255.1	6389.1
19°	6051.9	5986.9	5826.4	5682.2	5625.3	5676.1	5840.7	6056.0	6190.1
20°	5838.6	5785.8	5645.6	5527.8	5475.0	5521.7	5649.7	5858.9	5976.8
21°	5633.4	5586.7	5464.8	5365.2	5322.6	5361.2	5479.0	5668.0	5771.6
22°	5420.1	5393.7	5284.0	5200.7	5172.3	5196.6	5304.3	5466.8	5564.4
23°	5210.9	5186.5	5103.2	5034.1	5009.7	5034.1	5129.6	5275.9	5363.3
24°	4999.6	4973.2	4912.3	4867.5	4847.2	4867.5	4948.8	5072.7	5156.0
25°	4757.9	4753.8	4711.1	4686.7	4676.6	4698.9	4755.8	4863.5	4932.5
26°	4526.2	4514.0	4501.9	4497.8	4499.8	4512.0	4558.7	4640.0	4694.9
27°	4241.8	4260.1	4278.4	4302.8	4310.9	4321.1	4343.4	4402.3	4443.0
28°	3969.6	4004.1	4048.8	4097.6	4120.0	4120.0	4121.9	4154.5	4189.0
29°	3699.4	3736.0	3807.1	3880.2	3910.7	3906.6	3890.4	3904.6	3924.9
30°	3417.0	3463.8	3559.2	3654.7	3699.4	3683.2	3652.7	3638.5	3650.7
31°	3140.8	3187.5	3293.1	3396.7	3455.6	3437.4	3384.5	3374.4	3380.4
32°	2876.7	2923.4	3020.9	3130.6	3197.6	3173.3	3118.4	3102.1	3104.2
33°	2620.7	2657.2	2746.6	2848.2	2903.1	2896.9	2852.3	2832.0	2834.0
34°	2378.9	2409.4	2476.4	2553.7	2606.4	2604.4	2571.9	2573.9	2580.0
35°	2163.6	2179.8	2212.3	2255.0	2287.5	2305.8	2309.8	2326.1	2346.4
37.5°	1635.4	1641.5	1602.9	1560.2	1552.1	1604.9	1696.3	1775.6	1806.0
40°	1133.6	1119.4	1070.6	995.5	973.1	1032.0	1147.8	1259.6	1300.2
42.5°	705.0	698.8	668.4	611.5	591.2	625.7	713.1	798.4	839.0
45°	420.5	412.4	396.1	373.8	369.7	383.9	428.6	477.4	499.8
47.5°	241.7	239.7	229.6	221.4	219.4	229.6	249.9	278.3	284.4
50°	132.0	130.0	128.0	128.0	128.0	134.1	144.3	152.4	156.4
52.5°	65.0	67.1	65.0	67.1	69.1	73.1	71.1	79.2	79.2
55°	32.5	30.5	34.5	38.6	38.6	38.6	38.6	38.6	36.6
57.5°	24.4	26.4	22.4	24.4	22.4	22.4	20.3	22.4	24.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	16.3	14.2	16.3	18.3	20.3	18.3	14.2	16.3	18.3
62.5°	8.1	8.1	8.1	12.2	18.3	14.2	12.2	10.1	10.1
65°	12.2	8.1	10.1	12.2	10.1	10.1	8.1	10.1	8.1
67.5°	6.1	10.1	6.1	4.1	6.1	8.1	6.1	4.1	4.1
70°	0.0	2.0	2.0	6.1	6.1	6.1	6.1	4.1	4.1
72.5°	2.0	2.0	2.0	4.1	2.0	4.1	2.0	2.0	4.1
75°	0.0	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0
77.5°	2.0	0.0	2.0	2.0	0.0	0.0	0.0	2.0	0.0
80°	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0
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)