

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: P250198

Luminaire Tested: **LD8B90D010 ER8B90930 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250198
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 ER8B90930 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: 7808.9 lumens
Efficiency: N/A
Efficacy: 90.7 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

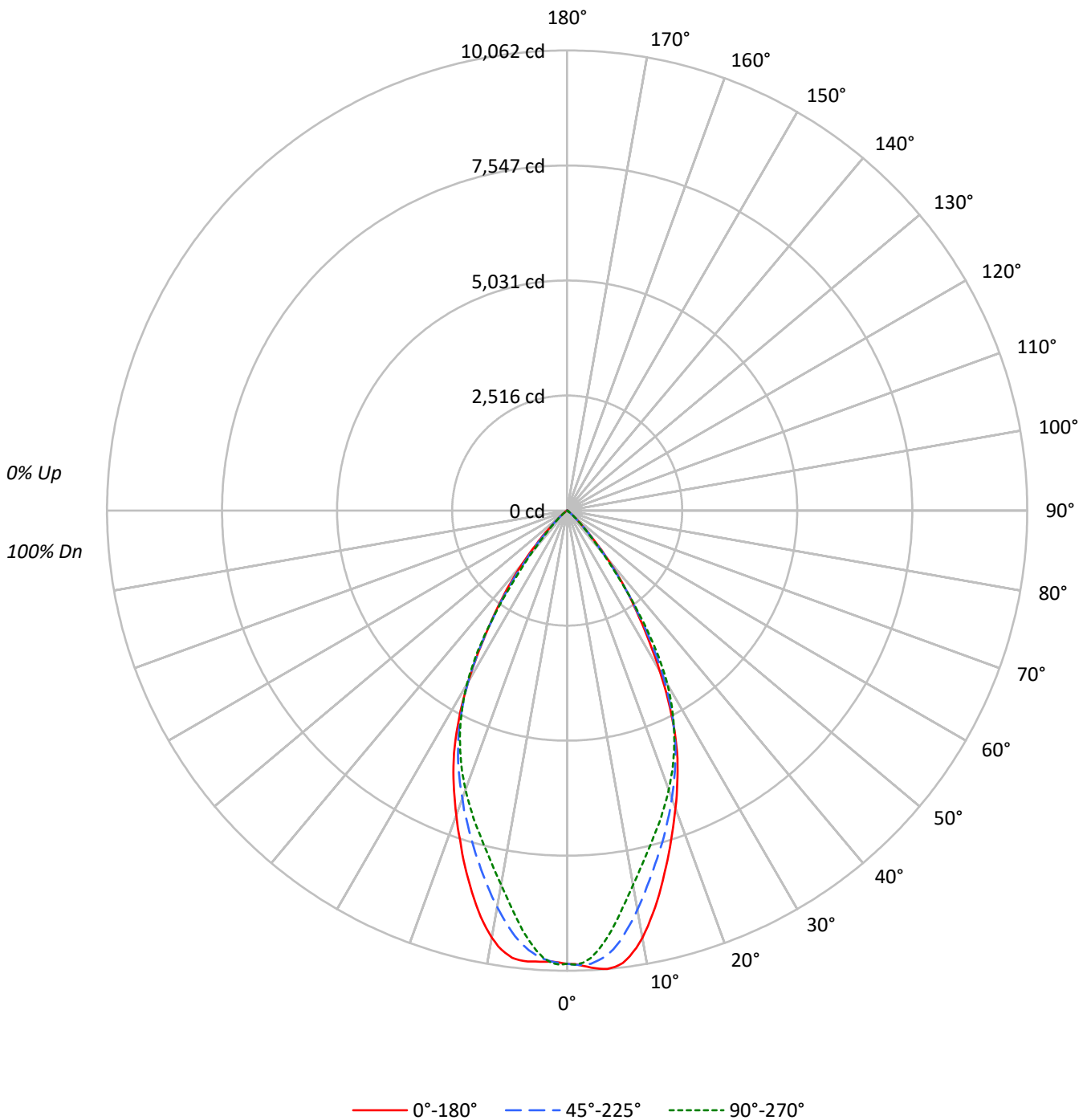
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	899.7	11.5
10°-20°	2175.9	27.9
20°-30°	2550.3	32.7
30°-40°	1678.0	21.5
40°-50°	437.9	5.6
50°-60°	53.9	0.7
60°-70°	11.2	0.1
70°-80°	2.1	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°	5625.9	72.0
0°-40°	7303.8	93.5
0°-60°	7795.6	99.8
0°-90°	7808.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7808.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9910	9910	9910	9910	9910	
5°	10062	9775	9452	9648	9898	943
15°	8214	7749	7354	7749	8354	2290
25°	5643	5588	5547	5641	5850	2544
35°	2566	2624	2713	2740	2783	1607
45°	499	470	438	508	593	447
55°	39	41	46	46	43	51
65°	14	12	12	10	10	10
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°	9910.2	9910.2	9910.2	9910.2	9910.2	9910.2	9910.2	9910.2	9910.2
1°	9917.4	9931.8	9936.7	9951.1	9929.5	9915.0	9895.7	9881.3	9883.6
2°	9960.8	9968.0	9941.5	9931.8	9893.3	9881.3	9866.8	9864.4	9866.8
3°	10006.6	9992.0	9922.2	9857.2	9799.3	9792.0	9818.6	9857.2	9878.8
4°	10042.7	10004.1	9857.2	9736.7	9645.1	9637.9	9744.0	9842.7	9883.6
5°	10062.0	9992.0	9775.2	9572.8	9452.4	9498.1	9647.6	9823.4	9898.1
6°	10035.4	9931.8	9649.9	9380.1	9242.8	9303.0	9522.2	9777.6	9888.5
7°	9968.0	9835.4	9488.5	9170.5	9001.7	9095.8	9375.3	9700.6	9852.4
8°	9842.7	9683.6	9283.7	8927.1	8760.8	8866.9	9194.6	9589.7	9765.6
9°	9678.8	9502.9	9081.3	8705.5	8527.1	8652.4	9006.6	9442.7	9645.1
10°	9483.7	9295.8	8857.2	8474.1	8312.7	8430.7	8804.2	9271.7	9481.3
11°	9254.8	9074.0	8633.2	8257.3	8103.0	8218.7	8601.9	9066.9	9293.3
12°	9006.6	8840.3	8404.2	8047.7	7903.0	8013.9	8385.0	8854.8	9078.9
13°	8758.4	8592.1	8182.6	7845.2	7712.7	7818.8	8172.9	8623.5	8847.6
14°	8491.0	8339.2	7960.9	7652.5	7532.0	7633.2	7956.1	8389.8	8601.9
15°	8213.9	8093.4	7748.8	7467.0	7353.8	7450.1	7748.8	8148.8	8353.6
16°	7953.7	7842.9	7544.0	7283.8	7189.9	7267.0	7539.3	7907.9	8103.0
17°	7688.6	7587.5	7339.2	7103.1	7018.8	7093.5	7324.8	7664.5	7840.4
18°	7423.6	7339.2	7115.2	6912.8	6838.1	6905.6	7112.7	7418.8	7577.7
19°	7177.8	7100.8	6910.4	6739.3	6671.9	6732.1	6927.2	7182.7	7341.7
20°	6924.9	6862.2	6696.0	6556.2	6493.5	6548.9	6700.8	6949.0	7088.6
21°	6681.5	6626.0	6481.5	6363.4	6312.8	6358.6	6498.3	6722.4	6845.3
22°	6428.5	6397.2	6267.1	6168.3	6134.6	6163.4	6291.2	6483.9	6599.6
23°	6180.3	6151.4	6052.6	5970.7	5941.7	5970.7	6083.9	6257.4	6361.0
24°	5929.8	5898.4	5826.2	5773.0	5749.0	5773.0	5869.4	6016.4	6115.3
25°	5643.0	5638.2	5587.6	5558.7	5546.6	5573.1	5640.6	5768.3	5850.2
26°	5368.2	5353.8	5339.4	5334.5	5337.0	5351.4	5406.8	5503.2	5568.3
27°	5030.9	5052.7	5074.3	5103.2	5112.9	5125.0	5151.4	5221.3	5269.5
28°	4708.1	4749.1	4802.0	4859.9	4886.4	4886.4	4888.8	4927.4	4968.3
29°	4387.7	4431.0	4515.4	4602.0	4638.2	4633.4	4614.1	4631.0	4655.1
30°	4052.8	4108.1	4221.5	4334.7	4387.7	4368.4	4332.2	4315.4	4329.9
31°	3725.1	3780.5	3905.8	4028.6	4098.5	4076.9	4014.2	4002.2	4009.4
32°	3411.9	3467.3	3582.8	3713.0	3792.5	3763.6	3698.5	3679.2	3681.7
33°	3108.2	3151.6	3257.6	3378.1	3443.2	3435.9	3382.8	3358.9	3361.2
34°	2821.6	2857.7	2937.1	3028.7	3091.4	3088.9	3050.4	3052.8	3060.0
35°	2566.1	2585.4	2623.9	2674.5	2713.0	2734.7	2739.6	2758.8	2783.0
37.5°	1939.7	1946.8	1901.1	1850.4	1840.8	1903.5	2012.0	2105.9	2142.0
40°	1344.5	1327.6	1269.8	1180.6	1154.1	1224.0	1361.3	1493.8	1542.0
42.5°	836.2	828.9	792.8	725.3	701.2	742.1	845.7	946.9	995.1
45°	498.7	489.1	469.8	443.4	438.5	455.4	508.4	566.2	592.8
47.5°	286.8	284.4	272.3	262.7	260.2	272.3	296.4	330.1	337.3
50°	156.6	154.2	151.8	151.8	151.8	159.0	171.1	180.7	185.5
52.5°	77.1	79.5	77.1	79.5	81.9	86.8	84.3	93.9	93.9
55°	38.6	36.1	41.0	45.8	45.8	45.8	45.8	45.8	43.4
57.5°	28.9	31.3	26.6	28.9	26.6	26.6	24.1	26.6	28.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	19.3	16.8	19.3	21.7	24.1	21.7	16.8	19.3	21.7
62.5°	9.6	9.6	9.6	14.5	21.7	16.8	14.5	12.0	12.0
65°	14.5	9.6	12.0	14.5	12.0	12.0	9.6	12.0	9.6
67.5°	7.3	12.0	7.3	4.8	7.3	9.6	7.3	4.8	4.8
70°	0.0	2.5	2.5	7.3	7.3	7.3	7.3	4.8	4.8
72.5°	2.5	2.5	2.5	4.8	2.5	4.8	2.5	2.5	4.8
75°	0.0	0.0	2.5	2.5	0.0	2.5	0.0	0.0	0.0
77.5°	2.5	0.0	2.5	2.5	0.0	0.0	0.0	2.5	0.0
80°	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5
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)