

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: P250197

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250197
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: LSR8B80D010 EC8B80930 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6933.3 lumens
Efficiency: N/A
Efficacy: 93.2 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

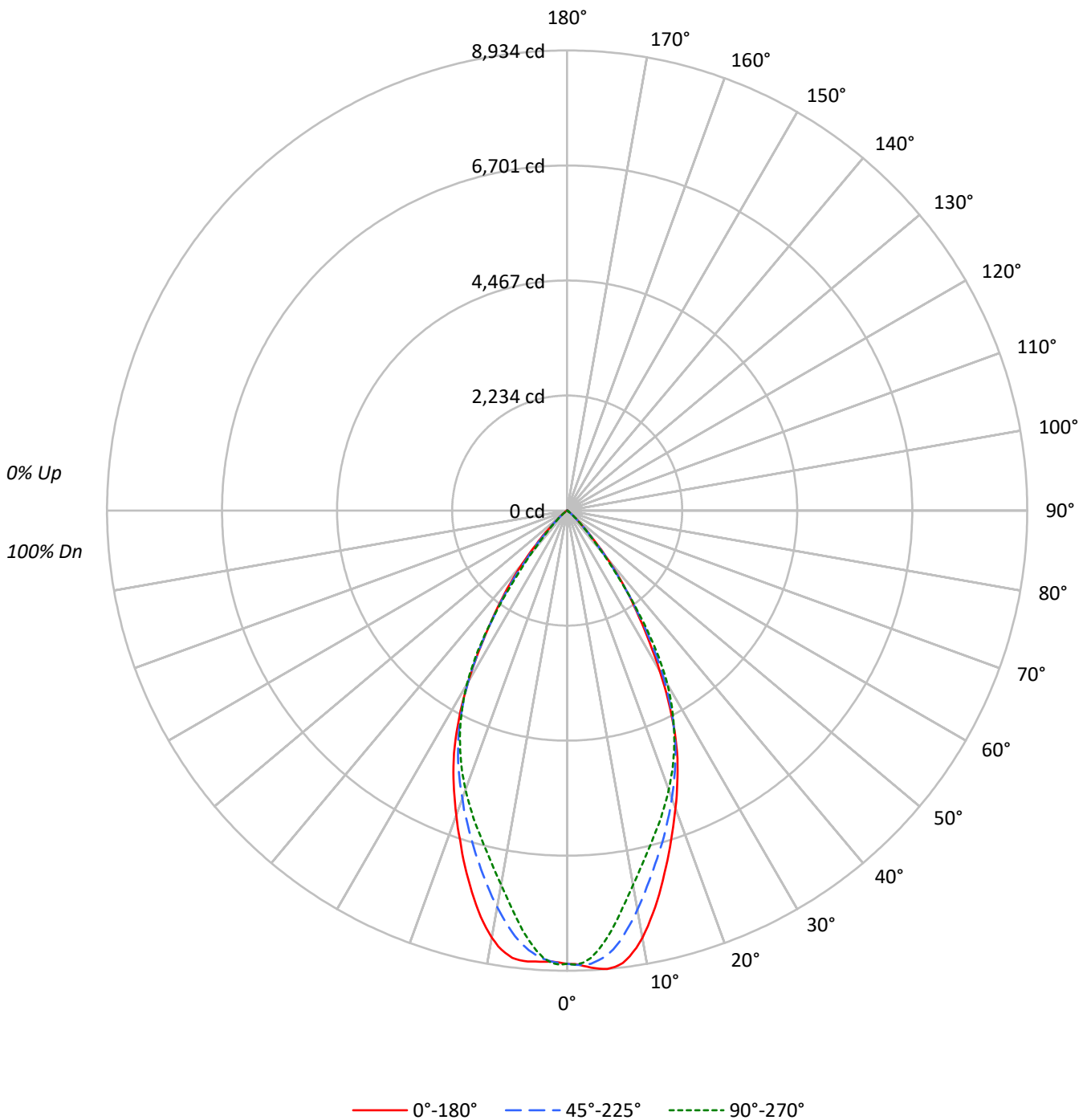
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	798.8	11.5
10°-20°	1932.0	27.9
20°-30°	2264.4	32.7
30°-40°	1489.8	21.5
40°-50°	388.8	5.6
50°-60°	47.8	0.7
60°-70°	9.9	0.1
70°-80°	1.8	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°	4995.1	72.0
0°-40°	6485.0	93.5
0°-60°	6921.6	99.8
0°-90°	6933.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6933.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8799	8799	8799	8799	8799	
5°	8934	8679	8393	8566	8788	837
15°	7293	6880	6529	6880	7417	2033
25°	5010	4961	4925	5008	5194	2259
35°	2278	2330	2409	2432	2471	1427
45°	443	417	389	451	526	397
55°	34	36	41	41	39	45
65°	13	11	11	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°	8799.1	8799.1	8799.1	8799.1	8799.1	8799.1	8799.1	8799.1	8799.1
1°	8805.5	8818.3	8822.6	8835.5	8816.2	8803.3	8786.3	8773.4	8775.5
2°	8844.0	8850.4	8826.9	8818.3	8784.2	8773.4	8760.5	8758.4	8760.5
3°	8884.7	8871.8	8809.7	8752.0	8700.6	8694.3	8717.8	8752.0	8771.3
4°	8916.8	8882.5	8752.0	8645.0	8563.8	8557.4	8651.4	8739.2	8775.5
5°	8933.9	8871.8	8679.2	8499.5	8392.6	8433.3	8565.9	8722.1	8788.3
6°	8910.3	8818.3	8568.0	8328.5	8206.5	8260.0	8454.7	8681.4	8779.8
7°	8850.4	8732.8	8424.7	8142.3	7992.5	8076.0	8324.1	8613.0	8747.7
8°	8739.2	8598.0	8242.8	7926.3	7778.6	7872.7	8163.7	8514.6	8670.7
9°	8593.7	8437.5	8063.1	7729.4	7571.1	7682.3	7996.9	8384.1	8563.8
10°	8420.4	8253.6	7864.2	7524.0	7380.7	7485.5	7817.2	8232.2	8418.3
11°	8217.2	8056.7	7665.2	7331.6	7194.6	7297.3	7637.4	8050.3	8251.3
12°	7996.9	7849.2	7462.0	7145.4	7017.0	7115.4	7444.9	7862.0	8061.0
13°	7776.5	7628.9	7265.2	6965.7	6848.0	6942.1	7256.6	7656.7	7855.6
14°	7539.1	7404.2	7068.4	6794.5	6687.5	6777.3	7064.1	7449.2	7637.4
15°	7293.0	7185.9	6880.1	6629.8	6529.3	6614.8	6880.1	7235.2	7417.1
16°	7062.0	6963.5	6698.2	6467.2	6383.8	6452.3	6693.9	7021.3	7194.6
17°	6826.6	6736.8	6516.4	6306.7	6231.9	6298.2	6503.6	6805.3	6961.4
18°	6591.3	6516.4	6317.5	6137.8	6071.4	6131.3	6315.4	6587.0	6728.1
19°	6373.1	6304.6	6135.6	5983.7	5923.8	5977.3	6150.6	6377.4	6518.5
20°	6148.5	6092.7	5945.2	5821.1	5765.5	5814.7	5949.5	6169.9	6294.0
21°	5932.3	5883.1	5754.8	5650.0	5605.0	5645.7	5769.8	5968.8	6077.8
22°	5707.8	5680.0	5564.4	5476.6	5446.7	5472.4	5585.8	5756.9	5859.7
23°	5487.4	5461.7	5374.0	5301.3	5275.5	5301.3	5401.9	5555.8	5647.8
24°	5264.9	5237.1	5173.0	5125.8	5104.5	5125.8	5211.4	5341.9	5429.7
25°	5010.3	5006.0	4961.1	4935.4	4924.8	4948.2	5008.2	5121.6	5194.3
26°	4766.4	4753.6	4740.7	4736.4	4738.6	4751.5	4800.7	4886.2	4944.1
27°	4467.0	4486.2	4505.4	4531.1	4539.6	4550.4	4573.9	4635.9	4678.7
28°	4180.2	4216.6	4263.7	4315.1	4338.6	4338.6	4340.7	4374.9	4411.2
29°	3895.7	3934.3	4009.1	4086.2	4118.2	4114.0	4096.8	4111.7	4133.1
30°	3598.4	3647.6	3748.2	3848.7	3895.7	3878.7	3846.5	3831.6	3844.4
31°	3307.4	3356.6	3467.8	3577.0	3639.0	3619.8	3564.1	3553.5	3559.8
32°	3029.3	3078.5	3181.2	3296.7	3367.3	3341.7	3283.9	3266.7	3268.9
33°	2759.7	2798.2	2892.4	2999.3	3057.1	3050.7	3003.6	2982.2	2984.3
34°	2505.2	2537.3	2607.8	2689.2	2744.8	2742.6	2708.3	2710.6	2717.0
35°	2278.4	2295.5	2329.7	2374.7	2408.9	2428.1	2432.5	2449.5	2470.9
37.5°	1722.2	1728.6	1687.9	1642.9	1634.4	1690.1	1786.3	1869.8	1901.9
40°	1193.8	1178.7	1127.4	1048.2	1024.7	1086.8	1208.8	1326.4	1369.2
42.5°	742.3	735.9	703.9	643.9	622.6	658.9	751.0	840.8	883.6
45°	442.8	434.3	417.1	393.7	389.3	404.3	451.4	502.8	526.3
47.5°	254.6	252.4	241.7	233.2	231.0	241.7	263.1	293.0	299.5
50°	139.0	137.0	134.7	134.7	134.7	141.1	151.9	160.4	164.8
52.5°	68.5	70.6	68.5	70.6	72.8	77.0	74.9	83.4	83.4
55°	34.2	32.1	36.4	40.7	40.7	40.7	40.7	40.7	38.6
57.5°	25.7	27.8	23.5	25.7	23.5	23.5	21.4	23.5	25.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	17.2	15.0	17.2	19.3	21.4	19.3	15.0	17.2	19.3
62.5°	8.5	8.5	8.5	12.8	19.3	15.0	12.8	10.6	10.6
65°	12.8	8.5	10.6	12.8	10.6	10.6	8.5	10.6	8.5
67.5°	6.4	10.6	6.4	4.3	6.4	8.5	6.4	4.3	4.3
70°	0.0	2.1	2.1	6.4	6.4	6.4	6.4	4.3	4.3
72.5°	2.1	2.1	2.1	4.3	2.1	4.3	2.1	2.1	4.3
75°	0.0	0.0	2.1	2.1	0.0	2.1	0.0	0.0	0.0
77.5°	2.1	0.0	2.1	2.1	0.0	0.0	0.0	2.1	0.0
80°	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1
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)