

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 EC8B809730 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 EC8B809730 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: 6185.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

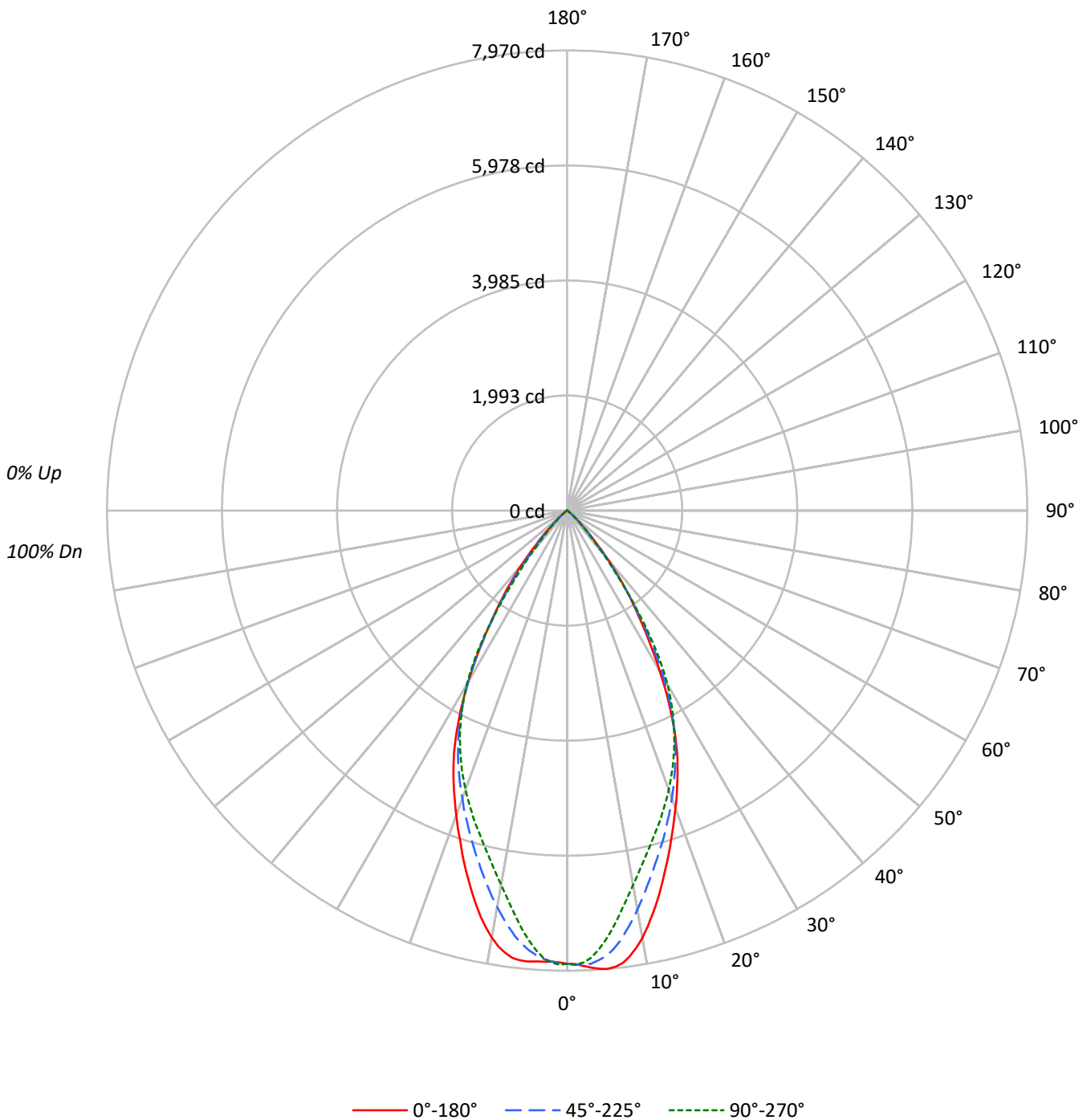
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	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°	712.6	11.5
10°-20°	1723.4	27.9
20°-30°	2020.0	32.7
30°-40°	1329.0	21.5
40°-50°	346.8	5.6
50°-60°	42.7	0.7
60°-70°	8.8	0.1
70°-80°	1.6	0.0
80°-90°	0.0	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°	4456.0	72.0
0°-40°	5785.0	93.5
0°-60°	6174.5	99.8
0°-90°	6185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6185.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7849	7849	7849	7849	7849	
5°	7970	7742	7487	7641	7840	747
15°	6506	6138	5824	6138	6616	1813
25°	4470	4426	4393	4468	4634	2015
35°	2032	2078	2149	2170	2204	1273
45°	395	372	347	403	470	354
55°	30	32	36	36	34	40
65°	11	10	10	8	8	8
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°	7849.3	7849.3	7849.3	7849.3	7849.3	7849.3	7849.3	7849.3	7849.3
1°	7855.0	7866.5	7870.3	7881.8	7864.6	7853.1	7837.9	7826.4	7828.3
2°	7889.4	7895.1	7874.1	7866.5	7836.0	7826.4	7814.9	7813.0	7814.9
3°	7925.7	7914.2	7858.8	7807.3	7761.5	7755.8	7776.8	7807.3	7824.5
4°	7954.3	7923.7	7807.3	7711.9	7639.4	7633.7	7717.6	7795.9	7828.3
5°	7969.6	7914.2	7742.4	7582.1	7486.7	7523.0	7641.3	7780.6	7839.7
6°	7948.5	7866.5	7643.2	7429.5	7320.7	7368.4	7542.1	7744.3	7832.1
7°	7895.1	7790.2	7515.3	7263.4	7129.8	7204.3	7425.6	7683.3	7803.5
8°	7795.9	7669.9	7353.1	7070.7	6939.0	7022.9	7282.5	7595.5	7734.8
9°	7666.1	7526.8	7192.8	6895.1	6753.9	6853.1	7133.7	7479.1	7639.4
10°	7511.5	7362.7	7015.3	6711.9	6584.0	6677.5	6973.4	7343.6	7509.6
11°	7330.2	7187.1	6837.8	6540.2	6418.0	6509.6	6813.0	7181.4	7360.7
12°	7133.7	7002.0	6656.6	6374.1	6259.6	6347.4	6641.3	7013.4	7190.9
13°	6937.1	6805.4	6481.0	6213.8	6108.8	6192.8	6473.3	6830.2	7007.7
14°	6725.3	6605.0	6305.4	6061.1	5965.7	6045.8	6301.6	6645.1	6813.0
15°	6505.8	6410.3	6137.5	5914.2	5824.5	5900.8	6137.5	6454.2	6616.5
16°	6299.7	6211.9	5975.2	5769.1	5694.7	5755.8	5971.4	6263.4	6418.0
17°	6089.7	6009.6	5813.0	5626.0	5559.2	5618.4	5801.6	6070.7	6210.0
18°	5879.8	5813.0	5635.6	5475.3	5416.1	5469.5	5633.7	5876.0	6001.9
19°	5685.2	5624.1	5473.3	5337.8	5284.4	5332.1	5486.7	5689.0	5814.9
20°	5484.8	5435.1	5303.5	5192.8	5143.2	5187.1	5307.3	5503.9	5614.6
21°	5292.0	5248.1	5133.6	5040.1	5000.0	5036.3	5147.0	5324.5	5421.8
22°	5091.7	5066.9	4963.8	4885.5	4858.8	4881.7	4982.9	5135.5	5227.2
23°	4895.1	4872.2	4793.9	4729.1	4706.1	4729.1	4818.8	4956.1	5038.2
24°	4696.6	4671.8	4614.6	4572.5	4553.5	4572.5	4648.9	4765.3	4843.6
25°	4469.5	4465.7	4425.6	4402.7	4393.2	4414.1	4467.6	4568.8	4633.6
26°	4251.9	4240.5	4229.0	4225.2	4227.1	4238.6	4282.5	4358.8	4410.4
27°	3984.8	4002.0	4019.1	4042.0	4049.6	4059.2	4080.2	4135.5	4173.7
28°	3729.0	3761.5	3803.5	3849.3	3870.3	3870.3	3872.2	3902.7	3935.1
29°	3475.2	3509.6	3576.4	3645.1	3673.7	3669.9	3654.6	3667.9	3687.0
30°	3210.0	3253.9	3343.6	3433.3	3475.2	3460.0	3431.3	3418.0	3429.4
31°	2950.4	2994.3	3093.5	3190.9	3246.2	3229.1	3179.4	3169.9	3175.6
32°	2702.3	2746.2	2837.8	2940.9	3003.8	2981.0	2929.4	2914.1	2916.1
33°	2461.8	2496.2	2580.2	2675.6	2727.1	2721.4	2679.4	2660.3	2662.2
34°	2234.8	2263.4	2326.3	2398.9	2448.5	2446.6	2416.0	2418.0	2423.7
35°	2032.5	2047.7	2078.2	2118.4	2148.9	2166.0	2169.9	2185.1	2204.2
37.5°	1536.3	1542.0	1505.7	1465.6	1458.0	1507.7	1593.5	1668.0	1696.6
40°	1064.9	1051.5	1005.7	935.1	914.1	969.5	1078.3	1183.2	1221.4
42.5°	662.2	656.5	627.9	574.4	555.4	587.8	669.9	750.0	788.2
45°	395.0	387.4	372.1	351.2	347.3	360.7	402.7	448.5	469.5
47.5°	227.1	225.2	215.6	208.0	206.1	215.6	234.7	261.4	267.2
50°	124.0	122.2	120.2	120.2	120.2	125.9	135.5	143.1	147.0
52.5°	61.1	63.0	61.1	63.0	64.9	68.7	66.8	74.4	74.4
55°	30.5	28.6	32.5	36.3	36.3	36.3	36.3	36.3	34.4
57.5°	22.9	24.8	21.0	22.9	21.0	21.0	19.1	21.0	22.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	15.3	13.4	15.3	17.2	19.1	17.2	13.4	15.3	17.2
62.5°	7.6	7.6	7.6	11.4	17.2	13.4	11.4	9.5	9.5
65°	11.4	7.6	9.5	11.4	9.5	9.5	7.6	9.5	7.6
67.5°	5.7	9.5	5.7	3.8	5.7	7.6	5.7	3.8	3.8
70°	0.0	1.9	1.9	5.7	5.7	5.7	5.7	3.8	3.8
72.5°	1.9	1.9	1.9	3.8	1.9	3.8	1.9	1.9	3.8
75°	0.0	0.0	1.9	1.9	0.0	1.9	0.0	0.0	0.0
77.5°	1.9	0.0	1.9	1.9	0.0	0.0	0.0	1.9	0.0
80°	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9
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)