

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: P250141

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250141
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 EC8B80840 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8341.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

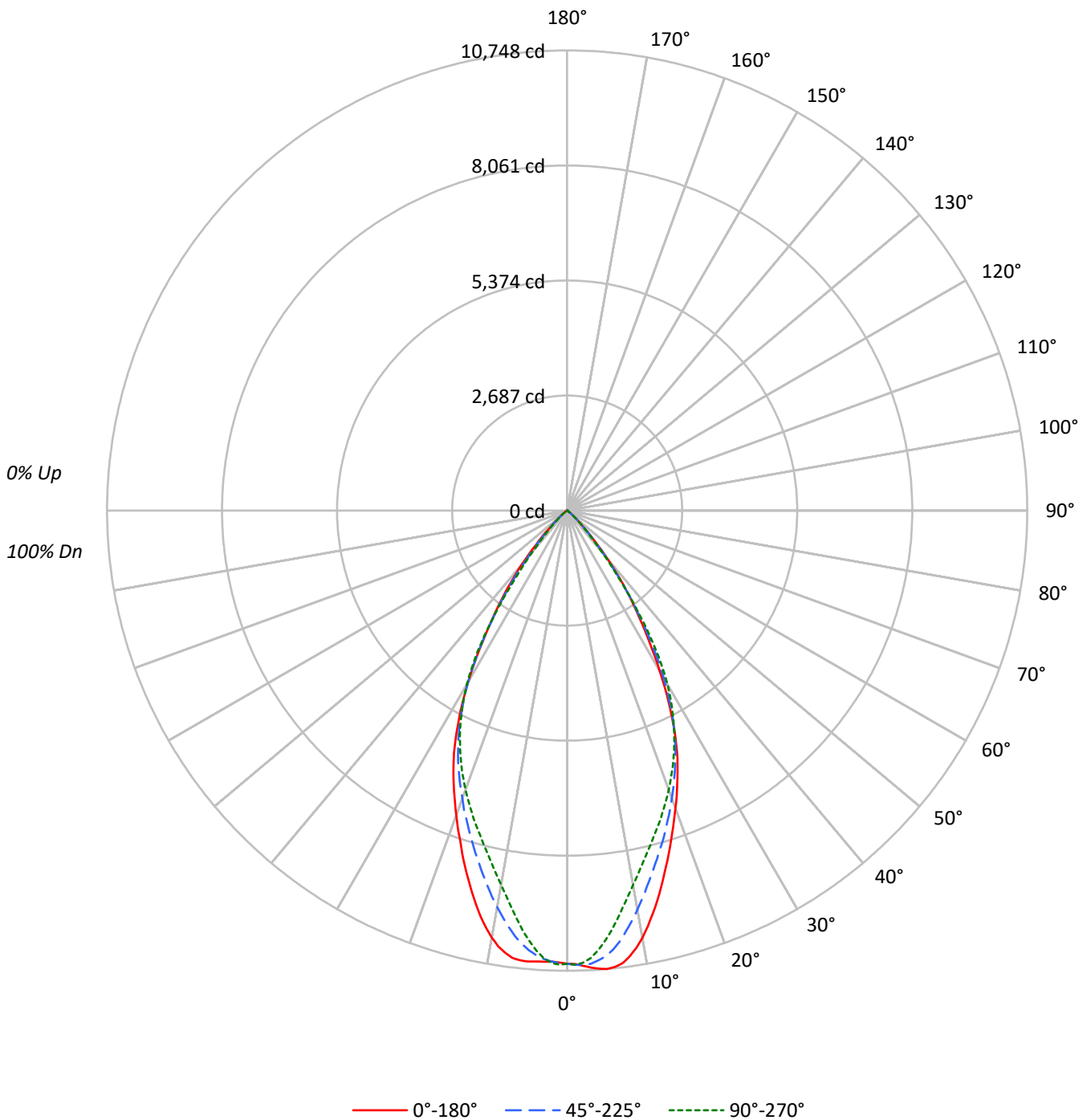
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	326418	326418	326418
5°	332682	312528	327265
10°	317188	278026	317106
15°	280089	250757	284856
20°	242725	227607	248468
25°	205080	201579	212610
30°	154138	166878	164677
35°	103183	109093	111901
40°	57809	49625	66302
45°	23235	20427	27609
50°	8026	7781	9508
55°	2215	2629	2489
60°	1270	1591	1431
65°	1124	934	752
70°	0	694	469
75°	0	0	0
80°	0	0	462
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.0	11.5
10°-20°	2324.2	27.9
20°-30°	2724.1	32.7
30°-40°	1792.3	21.5
40°-50°	467.7	5.6
50°-60°	57.5	0.7
60°-70°	11.9	0.1
70°-80°	2.2	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°	6009.2	72.0
0°-40°	7801.5	93.5
0°-60°	8326.8	99.8
0°-90°	8341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8341.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10586	10586	10586	10586	10586	
5°	10748	10441	10096	10305	10573	###
15°	8774	8277	7855	8277	8923	2446
25°	6028	5968	5925	6025	6249	2717
35°	2741	2803	2898	2926	2973	1716
45°	533	502	468	543	633	478
55°	41	44	49	49	46	55
65°	15	13	13	10	10	11
75°	0	3	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°	10585.5	10585.5	10585.5	10585.5	10585.5	10585.5	10585.5	10585.5	10585.5
1°	10593.2	10608.6	10613.7	10629.2	10606.1	10590.6	10570.0	10554.6	10557.1
2°	10639.5	10647.2	10618.9	10608.6	10567.5	10554.6	10539.1	10536.5	10539.1
3°	10688.4	10672.9	10598.3	10528.9	10467.1	10459.3	10487.7	10528.9	10552.0
4°	10727.0	10685.9	10528.9	10400.1	10302.3	10294.7	10407.9	10513.4	10557.1
5°	10747.6	10672.9	10441.3	10225.1	10096.5	10145.4	10304.9	10492.8	10572.6
6°	10719.3	10608.6	10307.5	10019.3	9872.6	9936.9	10171.1	10443.9	10562.3
7°	10647.2	10505.7	10135.1	9795.3	9615.2	9715.6	10014.1	10361.5	10523.7
8°	10513.4	10343.5	9916.3	9535.4	9357.8	9471.0	9821.1	10243.2	10431.1
9°	10338.4	10150.5	9700.1	9298.6	9108.2	9242.0	9620.3	10086.2	10302.3
10°	10129.9	9929.2	9460.8	9051.6	8879.2	9005.2	9404.2	9903.4	10127.3
11°	9885.4	9692.4	9221.4	8820.0	8655.2	8778.8	9188.0	9684.7	9926.6
12°	9620.3	9442.8	8976.9	8596.0	8441.6	8560.0	8956.4	9458.2	9697.6
13°	9355.2	9177.6	8740.2	8379.8	8238.3	8351.5	8729.8	9211.1	9450.4
14°	9069.6	8907.4	8503.4	8173.9	8045.3	8153.3	8498.2	8961.5	9188.0
15°	8773.6	8644.9	8276.9	7975.7	7854.8	7957.7	8276.9	8704.1	8922.9
16°	8495.6	8377.3	8058.1	7780.1	7679.8	7762.1	8053.0	8446.8	8655.2
17°	8212.5	8104.5	7839.3	7587.1	7497.1	7576.9	7823.9	8186.8	8374.7
18°	7929.5	7839.3	7600.0	7383.9	7304.1	7376.1	7597.5	7924.3	8094.1
19°	7666.9	7584.6	7381.3	7198.5	7126.5	7190.8	7399.3	7672.1	7841.9
20°	7396.7	7329.8	7152.2	7002.9	6936.0	6995.2	7157.3	7422.5	7571.7
21°	7136.7	7077.6	6923.1	6797.0	6743.0	6791.9	6941.2	7180.5	7311.8
22°	6866.5	6833.1	6694.1	6588.6	6552.5	6583.4	6719.8	6925.7	7049.3
23°	6601.4	6570.6	6465.0	6377.5	6346.6	6377.5	6498.5	6683.8	6794.5
24°	6333.8	6300.3	6223.1	6166.5	6140.8	6166.5	6269.4	6426.4	6532.0
25°	6027.5	6022.4	5968.3	5937.4	5924.6	5952.9	6025.0	6161.4	6248.8
26°	5734.1	5718.7	5703.2	5698.1	5700.6	5716.1	5775.3	5878.2	5947.8
27°	5373.8	5397.0	5420.1	5451.0	5461.3	5474.2	5502.5	5577.1	5628.6
28°	5028.9	5072.7	5129.3	5191.1	5219.4	5219.4	5221.9	5263.1	5306.9
29°	4686.7	4732.9	4823.1	4915.7	4954.3	4949.1	4928.5	4946.5	4972.3
30°	4328.9	4388.1	4509.1	4630.0	4686.7	4666.1	4627.5	4609.4	4624.9
31°	3978.9	4038.1	4171.9	4303.1	4377.8	4354.7	4287.7	4274.9	4282.6
32°	3644.3	3703.5	3827.0	3966.0	4050.9	4020.1	3950.6	3930.0	3932.5
33°	3320.0	3366.4	3479.6	3608.3	3677.8	3670.0	3613.4	3587.7	3590.2
34°	3013.8	3052.4	3137.3	3235.1	3302.0	3299.4	3258.2	3260.8	3268.6
35°	2741.0	2761.6	2802.7	2856.8	2898.0	2921.1	2926.2	2946.8	2972.6
37.5°	2071.8	2079.5	2030.6	1976.5	1966.3	2033.2	2149.0	2249.4	2288.0
40°	1436.1	1418.1	1356.3	1261.1	1232.8	1307.4	1454.1	1595.7	1647.1
42.5°	893.1	885.3	846.7	774.7	748.9	792.7	903.4	1011.5	1062.9
45°	532.8	522.4	501.8	473.6	468.4	486.4	543.0	604.8	633.1
47.5°	306.2	303.7	290.8	280.5	278.0	290.8	316.6	352.6	360.3
50°	167.3	164.7	162.2	162.2	162.2	169.8	182.7	193.0	198.2
52.5°	82.4	84.9	82.4	84.9	87.5	92.6	90.1	100.4	100.4
55°	41.2	38.6	43.8	48.9	48.9	48.9	48.9	48.9	46.3
57.5°	30.9	33.4	28.3	30.9	28.3	28.3	25.8	28.3	30.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	20.6	18.0	20.6	23.2	25.8	23.2	18.0	20.6	23.2
62.5°	10.3	10.3	10.3	15.4	23.2	18.0	15.4	12.8	12.8
65°	15.4	10.3	12.8	15.4	12.8	12.8	10.3	12.8	10.3
67.5°	7.7	12.8	7.7	5.2	7.7	10.3	7.7	5.2	5.2
70°	0.0	2.6	2.6	7.7	7.7	7.7	7.7	5.2	5.2
72.5°	2.6	2.6	2.6	5.2	2.6	5.2	2.6	2.6	5.2
75°	0.0	0.0	2.6	2.6	0.0	2.6	0.0	0.0	0.0
77.5°	2.6	0.0	2.6	2.6	0.0	0.0	0.0	2.6	0.0
80°	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.6
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)