

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: P250127

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250127
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 EC8B80830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8073.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

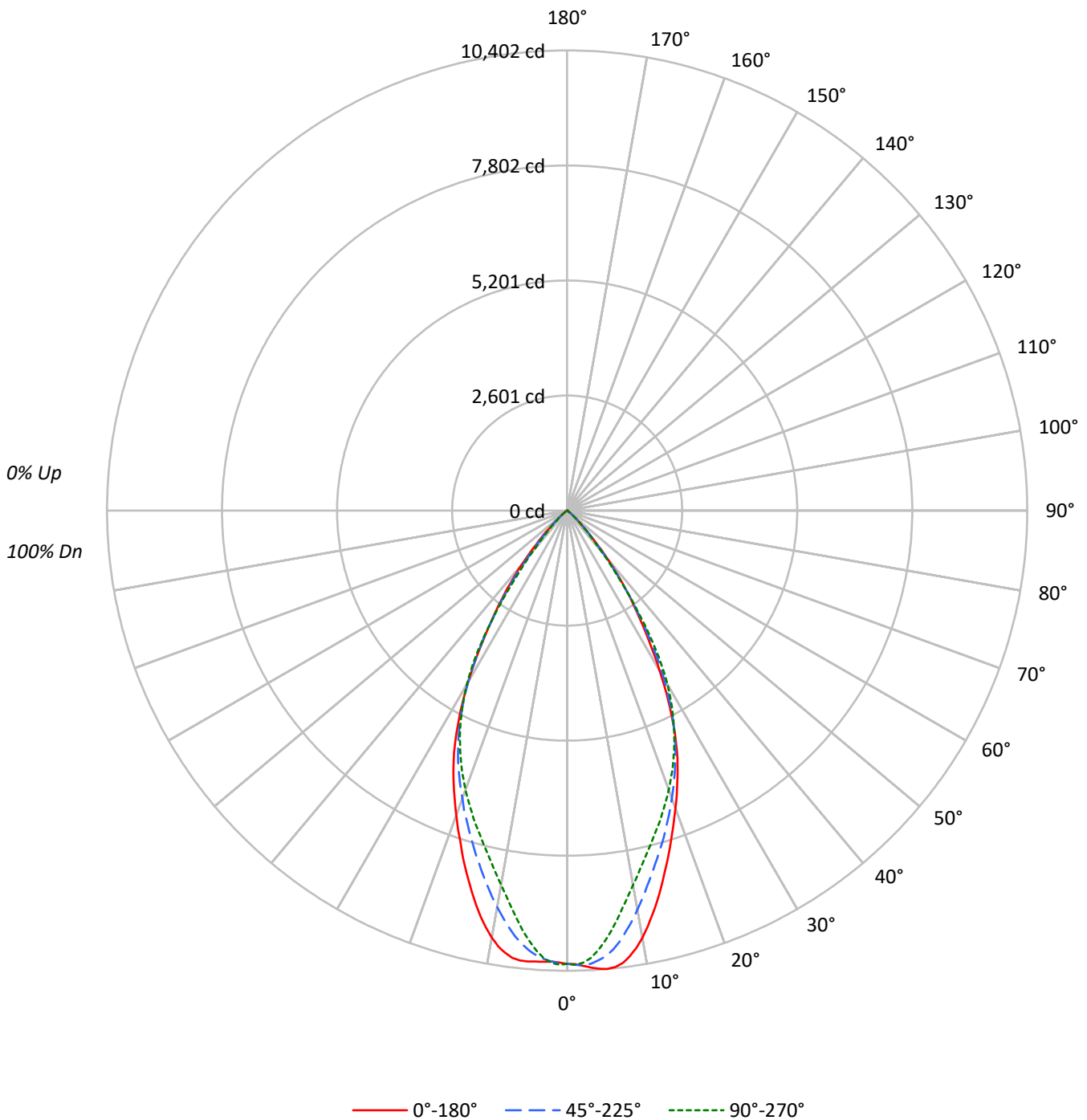
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	315930	315930	315930
5°	321994	302487	316750
10°	306996	269092	306917
15°	271090	242703	275703
20°	234925	220293	240484
25°	198493	195101	205778
30°	149185	161516	159386
35°	99866	105584	108306
40°	55953	48031	64173
45°	22485	19768	26724
50°	7767	7527	9201
55°	2145	2548	2414
60°	1227	1536	1381
65°	1087	905	722
70°	0	676	451
75°	0	0	0
80°	0	0	444
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.1	11.5
10°-20°	2249.5	27.9
20°-30°	2636.6	32.7
30°-40°	1734.7	21.5
40°-50°	452.7	5.6
50°-60°	55.7	0.7
60°-70°	11.5	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°	5816.2	72.0
0°-40°	7550.9	93.5
0°-60°	8059.2	99.8
0°-90°	8073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8073.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10245	10245	10245	10245	10245	
5°	10402	10106	9772	9974	10233	974
15°	8492	8011	7602	8011	8636	2367
25°	5834	5777	5734	5831	6048	2630
35°	2653	2713	2805	2832	2877	1661
45°	516	486	453	526	613	462
55°	40	42	47	47	45	53
65°	15	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°	10245.4	10245.4	10245.4	10245.4	10245.4	10245.4	10245.4	10245.4	10245.4
1°	10252.8	10267.8	10272.7	10287.7	10265.3	10250.4	10230.4	10215.4	10217.9
2°	10297.7	10305.1	10277.7	10267.8	10227.9	10215.4	10200.5	10198.0	10200.5
3°	10345.0	10330.0	10257.8	10190.6	10130.8	10123.3	10150.7	10190.6	10212.9
4°	10382.4	10342.5	10190.6	10066.0	9971.3	9963.9	10073.5	10175.6	10217.9
5°	10402.3	10330.0	10105.8	9896.6	9772.1	9819.4	9973.8	10155.6	10232.9
6°	10374.9	10267.8	9976.3	9697.4	9555.3	9617.6	9844.3	10108.3	10222.9
7°	10305.1	10168.1	9809.4	9480.6	9306.2	9403.4	9692.4	10028.6	10185.6
8°	10175.6	10011.2	9597.7	9229.0	9057.1	9166.7	9505.5	9914.0	10095.9
9°	10006.2	9824.4	9388.5	8999.8	8815.5	8945.1	9311.2	9762.1	9971.3
10°	9804.4	9610.1	9156.8	8760.7	8593.9	8715.9	9102.0	9585.2	9801.9
11°	9567.8	9381.0	8925.1	8536.6	8377.1	8496.7	8892.8	9373.5	9607.6
12°	9311.2	9139.4	8688.5	8319.8	8170.4	8285.0	8668.6	9154.3	9386.0
13°	9054.6	8882.8	8459.3	8110.6	7973.6	8083.2	8449.3	8915.2	9146.8
14°	8778.2	8621.2	8230.2	7911.3	7786.8	7891.4	8225.2	8673.5	8892.8
15°	8491.7	8367.1	8010.9	7719.5	7602.5	7702.0	8010.9	8424.4	8636.2
16°	8222.7	8108.1	7799.2	7530.2	7433.1	7512.7	7794.3	8175.4	8377.1
17°	7948.6	7844.1	7587.5	7343.4	7256.2	7333.4	7572.5	7923.8	8105.6
18°	7674.7	7587.5	7355.8	7146.6	7069.4	7139.1	7353.3	7669.7	7834.1
19°	7420.6	7340.9	7144.1	6967.2	6897.5	6959.7	7161.5	7425.6	7590.0
20°	7159.0	7094.3	6922.4	6777.9	6713.1	6770.4	6927.4	7184.0	7328.4
21°	6907.4	6850.1	6700.7	6578.6	6526.3	6573.7	6718.1	6949.8	7076.8
22°	6645.9	6613.5	6479.0	6376.9	6342.0	6371.9	6503.9	6703.2	6822.8
23°	6389.3	6359.4	6257.3	6172.6	6142.7	6172.6	6289.7	6469.0	6576.2
24°	6130.3	6097.9	6023.2	5968.3	5943.5	5968.3	6068.0	6219.9	6322.1
25°	5833.9	5828.9	5776.6	5746.7	5734.2	5761.6	5831.4	5963.4	6048.0
26°	5549.8	5534.9	5520.0	5515.0	5517.5	5532.4	5589.7	5689.4	5756.6
27°	5201.2	5223.6	5246.0	5275.9	5285.8	5298.3	5325.7	5397.9	5447.8
28°	4867.3	4909.7	4964.5	5024.3	5051.7	5051.7	5054.1	5094.0	5136.4
29°	4536.1	4580.9	4668.1	4757.7	4795.1	4790.1	4770.2	4787.6	4812.5
30°	4189.8	4247.1	4364.2	4481.3	4536.1	4516.1	4478.8	4461.3	4476.3
31°	3851.1	3908.3	4037.9	4164.9	4237.1	4214.7	4150.0	4137.5	4145.0
32°	3527.2	3584.5	3704.0	3838.6	3920.8	3890.9	3823.6	3803.7	3806.2
33°	3213.3	3258.2	3367.8	3492.4	3559.6	3552.1	3497.3	3472.4	3474.9
34°	2916.9	2954.3	3036.5	3131.2	3195.9	3193.4	3153.5	3156.0	3163.5
35°	2652.9	2672.8	2712.6	2765.0	2804.8	2827.2	2832.2	2852.1	2877.1
37.5°	2005.2	2012.7	1965.4	1913.0	1903.1	1967.9	2080.0	2177.1	2214.5
40°	1390.0	1372.5	1312.7	1220.6	1193.2	1265.4	1407.4	1544.4	1594.2
42.5°	864.4	856.9	819.5	749.8	724.9	767.2	874.3	979.0	1028.8
45°	515.6	505.6	485.7	458.3	453.3	470.8	525.6	585.4	612.8
47.5°	296.4	294.0	281.5	271.5	269.0	281.5	306.4	341.3	348.8
50°	161.9	159.4	156.9	156.9	156.9	164.4	176.9	186.8	191.8
52.5°	79.7	82.2	79.7	82.2	84.7	89.7	87.2	97.2	97.2
55°	39.9	37.4	42.4	47.4	47.4	47.4	47.4	47.4	44.9
57.5°	29.9	32.4	27.4	29.9	27.4	27.4	24.9	27.4	29.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	19.9	17.4	19.9	22.4	24.9	22.4	17.4	19.9	22.4
62.5°	9.9	9.9	9.9	14.9	22.4	17.4	14.9	12.4	12.4
65°	14.9	9.9	12.4	14.9	12.4	12.4	9.9	12.4	9.9
67.5°	7.5	12.4	7.5	5.0	7.5	9.9	7.5	5.0	5.0
70°	0.0	2.5	2.5	7.5	7.5	7.5	7.5	5.0	5.0
72.5°	2.5	2.5	2.5	5.0	2.5	5.0	2.5	2.5	5.0
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)