

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: P247427

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8092.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

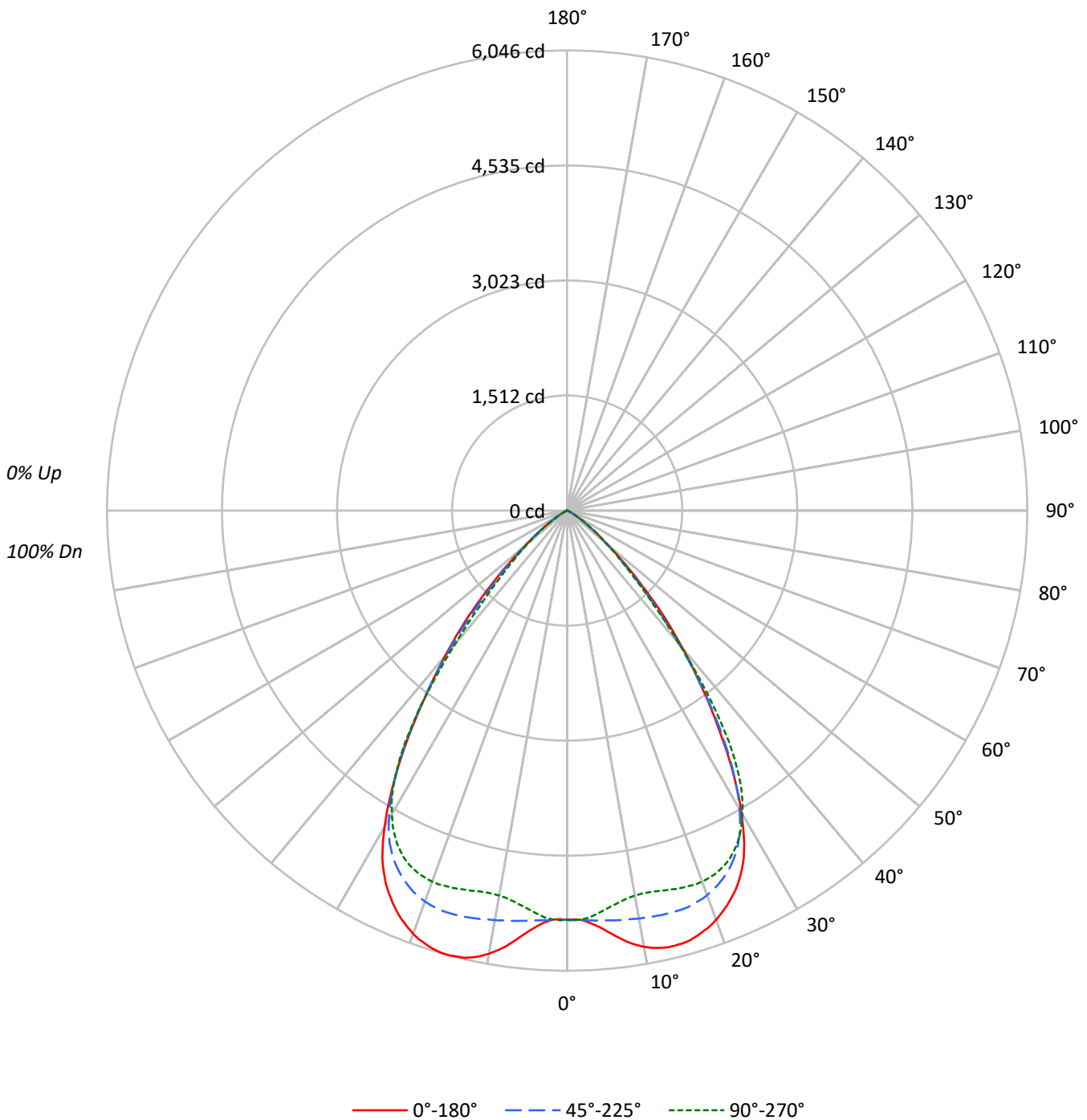
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

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°	518.5	6.4
10°-20°	1559.9	19.3
20°-30°	2374.3	29.3
30°-40°	2209.6	27.3
40°-50°	1075.4	13.3
50°-60°	306.4	3.8
60°-70°	40.1	0.5
70°-80°	6.3	0.1
80°-90°	1.9	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°	4452.8	55.0
0°-40°	6662.4	82.3
0°-60°	8044.2	99.4
0°-90°	8092.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8092.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5379	5379	5379	5379	5379	
5°	5523	5402	5283	5407	5532	538
15°	5884	5457	5160	5509	6046	1656
25°	5352	5119	5050	5231	5544	2429
35°	3448	3496	3706	3668	3640	2144
45°	1389	1286	1238	1387	1510	1098
55°	313	313	324	318	313	307
65°	21	25	28	25	23	39
75°	0	2	7	2	0	4
85°	0	2	2	5	0	1
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°	5379.1	5379.1	5379.1	5379.1	5379.1	5379.1	5379.1	5379.1	5379.1
1°	5372.2	5379.1	5383.7	5381.5	5383.7	5381.5	5376.9	5367.7	5367.7
2°	5381.5	5390.6	5388.2	5383.7	5376.9	5376.9	5390.6	5372.2	5376.9
3°	5417.9	5417.9	5390.6	5365.4	5356.3	5365.4	5388.2	5402.0	5413.4
4°	5463.6	5454.6	5399.6	5342.6	5324.3	5347.1	5397.4	5440.8	5463.6
5°	5523.1	5495.6	5402.0	5315.1	5283.2	5317.4	5406.6	5488.8	5532.2
6°	5591.7	5550.4	5415.7	5285.4	5244.3	5292.2	5420.3	5545.9	5612.2
7°	5660.3	5593.9	5422.5	5262.5	5210.0	5276.3	5431.7	5609.9	5696.7
8°	5724.2	5635.0	5429.5	5242.0	5178.0	5246.5	5440.8	5667.0	5781.2
9°	5776.7	5673.8	5433.9	5226.1	5150.7	5228.3	5452.2	5717.3	5852.1
10°	5820.1	5703.5	5443.1	5216.8	5134.6	5219.2	5463.6	5760.8	5911.6
11°	5854.4	5724.2	5445.4	5212.3	5127.8	5212.3	5472.7	5804.1	5961.8
12°	5874.9	5742.4	5452.2	5214.6	5130.0	5219.2	5486.5	5822.5	6003.0
13°	5888.7	5749.3	5456.8	5221.4	5134.6	5223.7	5495.6	5838.5	6030.3
14°	5888.7	5744.8	5456.8	5228.3	5148.4	5232.8	5502.5	5849.8	6037.1
15°	5884.1	5742.4	5456.8	5239.7	5159.7	5242.0	5509.4	5856.7	6046.3
16°	5870.5	5728.6	5454.6	5246.5	5171.2	5251.2	5511.6	5852.1	6039.5
17°	5843.0	5721.9	5445.4	5253.5	5182.6	5260.3	5511.6	5840.7	6023.5
18°	5806.3	5673.8	5422.5	5246.5	5184.8	5258.1	5497.9	5811.0	5993.9
19°	5774.4	5646.5	5406.6	5242.0	5193.9	5264.9	5488.8	5790.4	5961.8
20°	5724.2	5600.7	5379.1	5228.3	5187.2	5251.2	5466.0	5753.9	5918.4
21°	5662.5	5548.2	5340.2	5205.5	5175.8	5232.8	5433.9	5703.5	5858.9
22°	5600.7	5488.8	5299.2	5182.6	5157.5	5216.8	5399.6	5651.0	5797.3
23°	5527.7	5422.5	5246.5	5143.7	5130.0	5180.4	5351.8	5593.9	5724.2
24°	5445.4	5344.8	5189.4	5100.3	5095.8	5141.5	5296.8	5518.5	5637.4
25°	5351.8	5262.5	5118.6	5045.5	5050.1	5088.9	5230.6	5433.9	5543.7
26°	5239.7	5157.5	5036.3	4979.3	4986.1	5025.0	5155.1	5335.7	5440.8
27°	5114.0	5038.6	4940.4	4899.2	4917.6	4951.8	5063.8	5228.3	5312.9
28°	4956.4	4897.0	4826.1	4807.9	4830.7	4869.6	4963.2	5098.1	5173.5
29°	4773.6	4741.6	4686.8	4695.9	4727.8	4759.8	4837.6	4935.8	4995.3
30°	4577.0	4563.4	4531.3	4568.0	4604.4	4631.9	4684.4	4750.7	4796.4
31°	4375.9	4360.0	4364.5	4423.9	4478.7	4497.0	4526.7	4558.8	4593.1
32°	4149.7	4145.1	4163.4	4250.3	4321.1	4330.3	4332.6	4341.6	4360.0
33°	3918.9	3912.1	3948.7	4056.1	4136.0	4142.9	4124.6	4115.4	4129.2
34°	3679.0	3679.0	3727.0	3839.0	3932.7	3939.4	3903.0	3898.4	3884.6
35°	3448.2	3441.4	3496.2	3601.3	3706.4	3708.7	3667.6	3642.5	3640.2
37.5°	2876.9	2865.5	2883.8	2938.6	3016.3	3057.5	3052.9	3043.7	3036.9
40°	2355.9	2328.5	2292.0	2269.1	2292.0	2376.5	2449.6	2483.9	2490.7
42.5°	1864.7	1825.8	1748.1	1684.1	1693.3	1771.0	1882.9	1960.6	1999.4
45°	1389.3	1350.5	1286.5	1238.5	1238.5	1293.4	1387.0	1467.1	1510.4
47.5°	991.7	966.6	930.0	909.5	923.1	946.0	998.6	1058.0	1076.3
50°	683.2	676.4	655.9	655.9	669.5	687.8	696.9	726.6	733.6
52.5°	477.7	466.1	468.4	470.7	482.1	484.5	498.2	491.2	502.8
55°	313.0	313.0	313.0	319.9	324.5	324.5	317.6	313.0	313.0
57.5°	198.9	194.3	196.5	201.1	201.1	194.3	182.8	180.5	169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	118.8	118.8	121.2	121.2	118.8	111.9	100.6	91.5	86.8
62.5°	61.7	64.0	64.0	75.4	64.0	57.1	52.6	41.1	38.9
65°	20.6	25.1	25.1	25.1	27.5	25.1	25.1	22.9	22.9
67.5°	13.7	16.0	16.0	18.3	18.3	18.3	18.3	22.9	16.0
70°	11.4	11.4	13.7	16.0	16.0	18.3	13.7	11.4	18.3
72.5°	6.8	9.1	6.8	11.4	9.1	9.1	9.1	9.1	9.1
75°	0.0	4.6	2.2	0.0	6.8	4.6	2.2	4.6	0.0
77.5°	2.2	2.2	2.2	2.2	4.6	4.6	4.6	4.6	2.2
80°	2.2	2.2	4.6	2.2	2.2	4.6	0.0	0.0	9.1
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2	2.2
85°	0.0	2.2	2.2	2.2	2.2	2.2	4.6	4.6	0.0
87.5°	0.0	2.2	0.0	2.2	0.0	0.0	0.0	4.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)