

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: P247423

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247423
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 EC8B90927 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7677.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

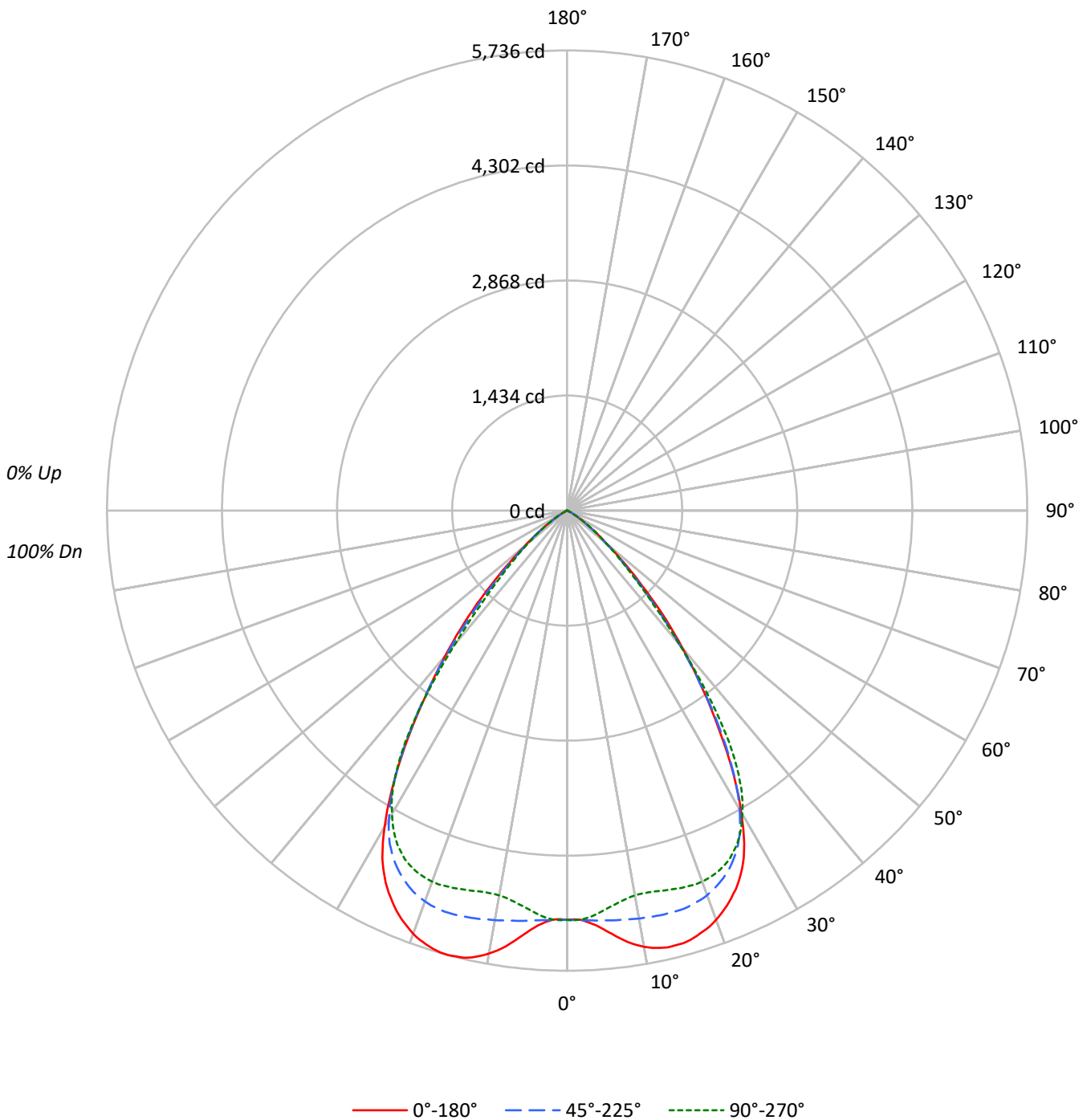
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	491.9	6.4
10°-20°	1479.9	19.3
20°-30°	2252.4	29.3
30°-40°	2096.1	27.3
40°-50°	1020.2	13.3
50°-60°	290.7	3.8
60°-70°	38.0	0.5
70°-80°	6.0	0.1
80°-90°	1.8	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°	4224.1	55.0
0°-40°	6320.3	82.3
0°-60°	7631.2	99.4
0°-90°	7677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7677.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5103	5103	5103	5103	5103	
5°	5240	5125	5012	5129	5248	510
15°	5582	5177	4895	5226	5736	1571
25°	5077	4856	4791	4962	5259	2304
35°	3271	3317	3516	3479	3453	2034
45°	1318	1220	1175	1316	1433	1042
55°	297	297	308	301	297	291
65°	20	24	26	24	22	37
75°	0	2	6	2	0	4
85°	0	2	2	4	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°	5102.9	5102.9	5102.9	5102.9	5102.9	5102.9	5102.9	5102.9	5102.9
1°	5096.4	5102.9	5107.3	5105.1	5107.3	5105.1	5100.8	5092.1	5092.1
2°	5105.1	5113.8	5111.6	5107.3	5100.8	5100.8	5113.8	5096.4	5100.8
3°	5139.8	5139.8	5113.8	5090.0	5081.2	5090.0	5111.6	5124.6	5135.5
4°	5183.1	5174.4	5122.5	5068.2	5050.9	5072.5	5120.3	5161.4	5183.1
5°	5239.5	5213.5	5124.6	5042.2	5011.9	5044.4	5129.0	5207.0	5248.1
6°	5304.6	5265.4	5137.7	5014.0	4975.1	5020.5	5142.0	5261.2	5324.1
7°	5369.6	5306.7	5144.2	4992.3	4942.5	5005.3	5152.7	5321.8	5404.3
8°	5430.3	5345.7	5150.6	4973.0	4912.1	4977.2	5161.4	5376.0	5484.5
9°	5480.1	5382.6	5155.0	4957.8	4886.2	4959.9	5172.3	5423.7	5551.7
10°	5521.3	5410.7	5163.6	4949.0	4871.0	4951.2	5183.1	5465.0	5608.0
11°	5553.9	5430.3	5165.8	4944.7	4864.5	4944.7	5191.8	5506.1	5655.7
12°	5573.4	5447.6	5172.3	4946.8	4866.6	4951.2	5204.8	5523.5	5694.8
13°	5586.3	5454.1	5176.6	4953.4	4871.0	4955.5	5213.5	5538.7	5720.7
14°	5586.3	5449.8	5176.6	4959.9	4884.1	4964.2	5220.0	5549.5	5727.3
15°	5582.0	5447.6	5176.6	4970.7	4894.9	4973.0	5226.5	5556.0	5735.9
16°	5569.0	5434.5	5174.4	4977.2	4905.7	4981.5	5228.7	5551.7	5729.4
17°	5543.0	5428.1	5165.8	4983.8	4916.5	4990.2	5228.7	5540.8	5714.2
18°	5508.2	5382.6	5144.2	4977.2	4918.6	4988.0	5215.7	5512.6	5686.1
19°	5478.0	5356.6	5129.0	4973.0	4927.3	4994.6	5207.0	5493.0	5655.7
20°	5430.3	5313.3	5102.9	4959.9	4920.9	4981.5	5185.3	5458.5	5614.5
21°	5371.8	5263.3	5066.1	4938.2	4910.0	4964.2	5155.0	5410.7	5558.2
22°	5313.3	5207.0	5027.1	4916.5	4892.7	4949.0	5122.5	5360.8	5499.6
23°	5243.7	5144.2	4977.2	4879.7	4866.6	4914.3	5076.9	5306.7	5430.3
24°	5165.8	5070.4	4923.0	4838.4	4834.1	4877.6	5024.9	5235.2	5347.9
25°	5076.9	4992.3	4855.8	4786.4	4790.8	4827.6	4962.0	5155.0	5259.0
26°	4970.7	4892.7	4777.8	4723.7	4730.1	4767.0	4890.5	5061.7	5161.4
27°	4851.4	4779.9	4686.8	4647.7	4665.0	4697.6	4803.9	4959.9	5040.1
28°	4701.9	4645.6	4578.3	4561.0	4582.7	4619.6	4708.5	4836.3	4907.8
29°	4528.5	4498.1	4446.1	4454.8	4485.0	4515.4	4589.1	4682.4	4738.7
30°	4342.0	4329.0	4298.7	4333.4	4368.0	4394.1	4444.0	4506.8	4550.2
31°	4151.2	4136.2	4140.4	4196.8	4248.8	4266.1	4294.3	4324.6	4357.2
32°	3936.7	3932.3	3949.6	4032.1	4099.3	4107.9	4110.1	4118.7	4136.2
33°	3717.8	3711.3	3745.9	3847.8	3923.7	3930.2	3912.8	3904.1	3917.1
34°	3490.1	3490.1	3535.6	3641.8	3730.7	3737.1	3702.6	3698.2	3685.2
35°	3271.2	3264.6	3316.6	3416.4	3516.1	3518.3	3479.3	3455.4	3453.3
37.5°	2729.1	2718.5	2735.7	2787.8	2861.4	2900.5	2896.1	2887.4	2881.0
40°	2234.9	2209.0	2174.3	2152.6	2174.3	2254.5	2323.8	2356.4	2362.8
42.5°	1769.0	1732.0	1658.4	1597.6	1606.4	1680.1	1786.3	1860.0	1896.8
45°	1317.9	1281.1	1220.4	1175.0	1175.0	1226.9	1315.8	1391.6	1432.9
47.5°	940.8	917.0	882.2	862.8	875.8	897.4	947.4	1003.7	1021.0
50°	648.1	641.6	622.1	622.1	635.2	652.5	661.2	689.4	695.9
52.5°	453.2	442.2	444.4	446.6	457.4	459.6	472.5	466.1	476.9
55°	297.0	297.0	297.0	303.4	307.8	307.8	301.3	297.0	297.0
57.5°	188.7	184.3	186.4	190.8	190.8	184.3	173.5	171.2	160.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	112.7	112.7	115.0	115.0	112.7	106.2	95.4	86.7	82.4
62.5°	58.5	60.6	60.6	71.6	60.6	54.1	49.8	39.0	36.9
65°	19.6	23.8	23.8	23.8	26.1	23.8	23.8	21.7	21.7
67.5°	13.0	15.2	15.2	17.3	17.3	17.3	17.3	21.7	15.2
70°	10.8	10.8	13.0	15.2	15.2	17.3	13.0	10.8	17.3
72.5°	6.5	8.7	6.5	10.8	8.7	8.7	8.7	8.7	8.7
75°	0.0	4.4	2.1	0.0	6.5	4.4	2.1	4.4	0.0
77.5°	2.1	2.1	2.1	2.1	4.4	4.4	4.4	4.4	2.1
80°	2.1	2.1	4.4	2.1	2.1	4.4	0.0	0.0	8.7
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	2.1	2.1
85°	0.0	2.1	2.1	2.1	2.1	2.1	4.4	4.4	0.0
87.5°	0.0	2.1	0.0	2.1	0.0	0.0	0.0	4.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)