

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: P247426

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247426
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: LSR8B80D010 EC8B80930 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: 7185.6 lumens
Efficiency: N/A
Efficacy: 96.6 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

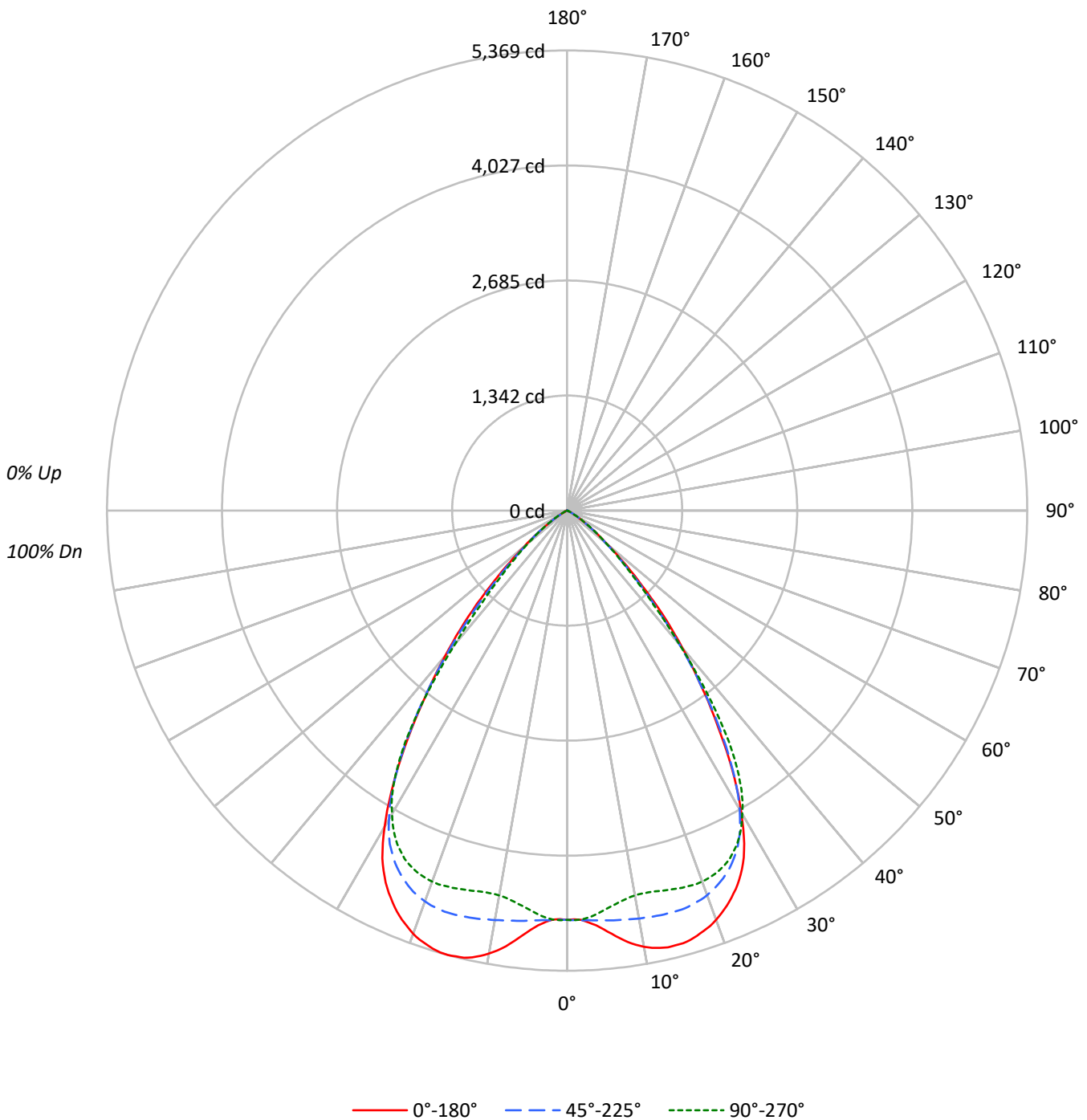
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	460.4	6.4
10°-20°	1385.1	19.3
20°-30°	2108.3	29.3
30°-40°	1962.0	27.3
40°-50°	954.9	13.3
50°-60°	272.1	3.8
60°-70°	35.6	0.5
70°-80°	5.6	0.1
80°-90°	1.7	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°	3953.8	55.0
0°-40°	5915.7	82.3
0°-60°	7142.7	99.4
0°-90°	7185.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4776	4776	4776	4776	4776	
5°	4904	4796	4691	4801	4912	478
15°	5225	4845	4582	4892	5369	1470
25°	4752	4545	4484	4644	4922	2157
35°	3062	3104	3291	3256	3232	1904
45°	1234	1142	1100	1232	1341	975
55°	278	278	288	282	278	273
65°	18	22	24	22	20	35
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°	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2
1°	4770.2	4776.2	4780.4	4778.4	4780.4	4778.4	4774.2	4766.2	4766.2
2°	4778.4	4786.4	4784.4	4780.4	4774.2	4774.2	4786.4	4770.2	4774.2
3°	4810.8	4810.8	4786.4	4764.1	4756.0	4764.1	4784.4	4796.5	4806.7
4°	4851.4	4843.3	4794.5	4743.8	4727.6	4747.9	4792.6	4831.1	4851.4
5°	4904.2	4879.7	4796.5	4719.5	4691.0	4721.5	4800.7	4873.7	4912.2
6°	4965.0	4928.5	4808.8	4693.1	4656.6	4699.2	4812.9	4924.4	4983.2
7°	5025.9	4967.0	4814.8	4672.8	4626.1	4685.0	4823.0	4981.3	5058.3
8°	5082.7	5003.5	4821.0	4654.6	4597.7	4658.7	4831.1	5031.9	5133.4
9°	5129.4	5038.0	4825.0	4640.4	4573.5	4642.4	4841.3	5076.6	5196.3
10°	5167.9	5064.5	4833.2	4632.2	4559.2	4634.3	4851.4	5115.2	5249.1
11°	5198.4	5082.7	4835.2	4628.2	4553.2	4628.2	4859.4	5153.7	5293.7
12°	5216.6	5098.9	4841.3	4630.2	4555.1	4634.3	4871.6	5169.9	5330.2
13°	5228.8	5105.0	4845.3	4636.3	4559.2	4638.4	4879.7	5184.2	5354.6
14°	5228.8	5101.0	4845.3	4642.4	4571.4	4646.4	4885.9	5194.3	5360.6
15°	5224.8	5098.9	4845.3	4652.5	4581.5	4654.6	4891.9	5200.3	5368.7
16°	5212.5	5086.6	4843.3	4658.7	4591.6	4662.7	4893.9	5196.3	5362.8
17°	5188.2	5080.7	4835.2	4664.7	4601.8	4670.8	4893.9	5186.2	5348.4
18°	5155.7	5038.0	4814.8	4658.7	4603.8	4668.7	4881.8	5159.7	5322.2
19°	5127.3	5013.7	4800.7	4654.6	4611.9	4674.9	4873.7	5141.5	5293.7
20°	5082.7	4973.1	4776.2	4642.4	4605.9	4662.7	4853.5	5109.1	5255.1
21°	5027.9	4926.5	4741.8	4622.1	4595.8	4646.4	4825.0	5064.5	5202.3
22°	4973.1	4873.7	4705.3	4601.8	4579.5	4632.2	4794.5	5017.7	5147.6
23°	4908.2	4814.8	4658.7	4567.3	4555.1	4599.8	4751.9	4967.0	5082.7
24°	4835.2	4745.9	4607.9	4528.7	4524.7	4565.3	4703.3	4900.0	5005.6
25°	4751.9	4672.8	4545.0	4480.1	4484.1	4518.6	4644.4	4825.0	4922.4
26°	4652.5	4579.5	4471.9	4421.2	4427.4	4461.8	4577.4	4737.8	4831.1
27°	4540.9	4473.9	4386.8	4350.2	4366.4	4396.9	4496.3	4642.4	4717.5
28°	4400.9	4348.1	4285.2	4269.1	4289.4	4323.9	4407.1	4526.7	4593.7
29°	4238.6	4210.3	4161.5	4169.7	4198.0	4226.4	4295.3	4382.7	4435.5
30°	4064.2	4052.0	4023.5	4056.0	4088.4	4112.8	4159.5	4218.3	4258.9
31°	3885.6	3871.4	3875.4	3928.2	3976.9	3993.1	4019.5	4047.8	4078.3
32°	3684.7	3680.6	3696.8	3774.0	3836.8	3845.0	3847.0	3855.1	3871.4
33°	3479.8	3473.6	3506.2	3601.5	3672.5	3678.7	3662.3	3654.2	3666.5
34°	3266.7	3266.7	3309.3	3408.7	3491.9	3498.0	3465.6	3461.5	3449.3
35°	3061.8	3055.7	3104.4	3197.8	3291.0	3293.2	3256.5	3234.2	3232.2
37.5°	2554.5	2544.4	2560.6	2609.2	2678.3	2714.8	2710.8	2702.6	2696.6
40°	2091.9	2067.6	2035.1	2014.8	2035.1	2110.2	2175.1	2205.6	2211.6
42.5°	1655.7	1621.2	1552.2	1495.3	1503.5	1572.5	1671.9	1740.9	1775.3
45°	1233.7	1199.1	1142.3	1099.7	1099.7	1148.5	1231.6	1302.6	1341.2
47.5°	880.5	858.2	825.8	807.6	819.7	840.0	886.7	939.5	955.7
50°	606.7	600.5	582.4	582.4	594.5	610.7	618.9	645.2	651.3
52.5°	424.1	413.9	415.9	418.0	428.1	430.2	442.3	436.2	446.4
55°	277.9	277.9	277.9	284.1	288.1	288.1	282.0	277.9	277.9
57.5°	176.6	172.4	174.4	178.6	178.6	172.4	162.3	160.3	150.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	105.5	105.5	107.6	107.6	105.5	99.4	89.2	81.2	77.1
62.5°	54.8	56.8	56.8	67.0	56.8	50.7	46.6	36.5	34.5
65°	18.3	22.3	22.3	22.3	24.4	22.3	22.3	20.3	20.3
67.5°	12.2	14.2	14.2	16.3	16.3	16.3	16.3	20.3	14.2
70°	10.1	10.1	12.2	14.2	14.2	16.3	12.2	10.1	16.3
72.5°	6.1	8.1	6.1	10.1	8.1	8.1	8.1	8.1	8.1
75°	0.0	4.1	2.0	0.0	6.1	4.1	2.0	4.1	0.0
77.5°	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	2.0
80°	2.0	2.0	4.1	2.0	2.0	4.1	0.0	0.0	8.1
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
85°	0.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	0.0
87.5°	0.0	2.0	0.0	2.0	0.0	0.0	0.0	4.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)