

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: P247422

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247422
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 EC8B80927 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: 6815.3 lumens
Efficiency: N/A
Efficacy: 91.6 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

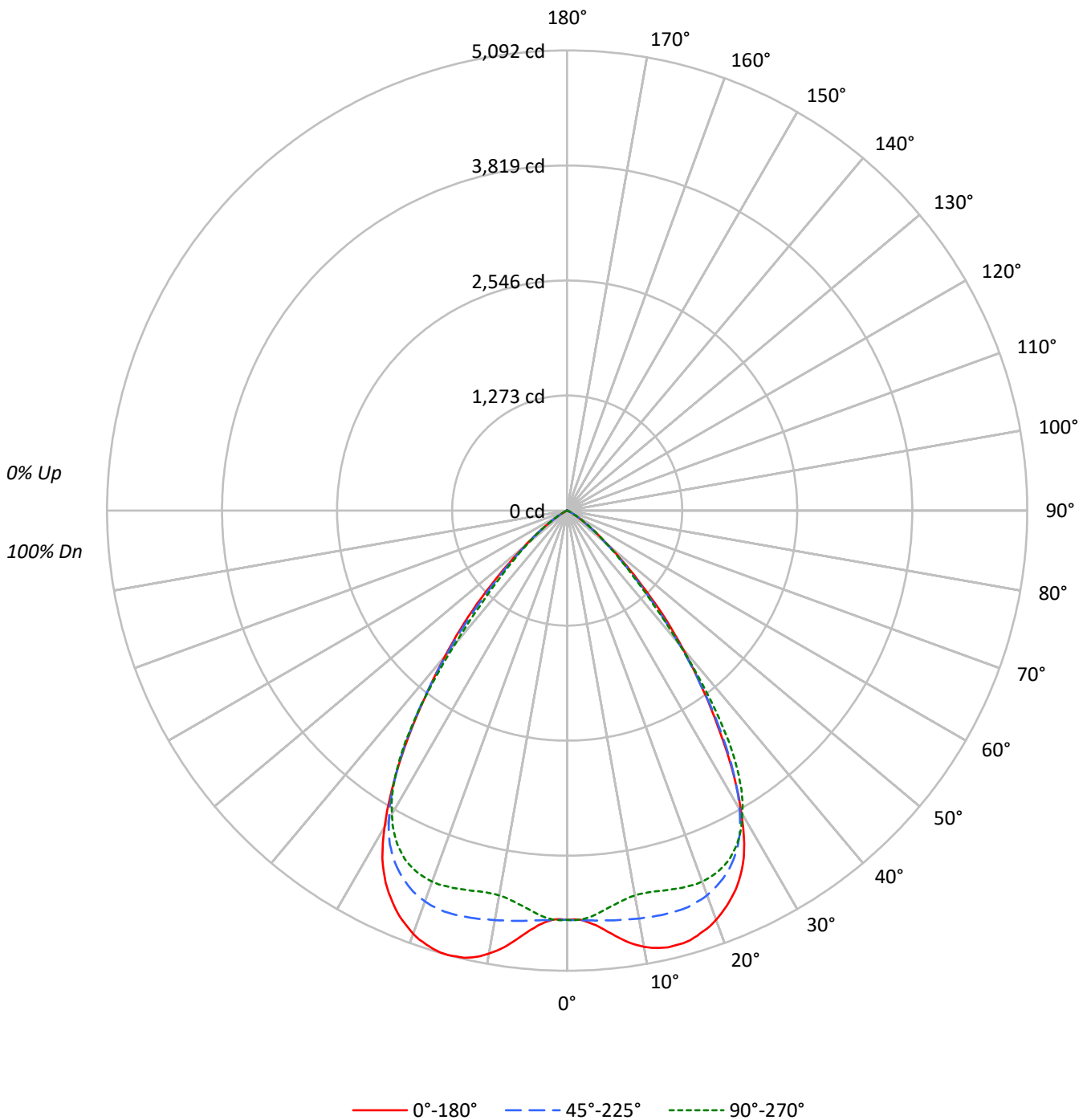
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	436.7	6.4
10°-20°	1313.7	19.3
20°-30°	1999.6	29.3
30°-40°	1860.9	27.3
40°-50°	905.7	13.3
50°-60°	258.1	3.8
60°-70°	33.7	0.5
70°-80°	5.3	0.1
80°-90°	1.6	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°	3750.0	55.0
0°-40°	5610.8	82.3
0°-60°	6774.6	99.4
0°-90°	6815.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6815.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4530	4530	4530	4530	4530	
5°	4651	4549	4449	4553	4659	453
15°	4956	4596	4345	4640	5092	1394
25°	4507	4311	4253	4405	4669	2046
35°	2904	2944	3121	3089	3066	1806
45°	1170	1084	1043	1168	1272	925
55°	264	264	273	268	264	259
65°	17	21	23	21	19	33
75°	0	2	6	2	0	3
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°	4530.2	4530.2	4530.2	4530.2	4530.2	4530.2	4530.2	4530.2	4530.2
1°	4524.3	4530.2	4534.0	4532.1	4534.0	4532.1	4528.2	4520.5	4520.5
2°	4532.1	4539.7	4537.8	4534.0	4528.2	4528.2	4539.7	4524.3	4528.2
3°	4562.8	4562.8	4539.7	4518.6	4510.8	4518.6	4537.8	4549.4	4559.1
4°	4601.4	4593.6	4547.5	4499.3	4483.9	4503.2	4545.6	4582.0	4601.4
5°	4651.4	4628.2	4549.4	4476.3	4449.3	4478.2	4553.2	4622.5	4659.1
6°	4709.1	4674.4	4560.9	4451.2	4416.6	4457.0	4564.8	4670.7	4726.3
7°	4766.8	4711.0	4566.7	4431.9	4387.7	4443.5	4574.4	4724.4	4797.6
8°	4820.7	4745.6	4572.4	4414.7	4360.7	4418.4	4582.0	4772.6	4868.8
9°	4865.0	4778.3	4576.3	4401.2	4337.7	4403.1	4591.7	4814.9	4928.4
10°	4901.5	4803.4	4584.0	4393.5	4324.3	4395.5	4601.4	4851.6	4978.5
11°	4930.4	4820.7	4586.0	4389.6	4318.4	4389.6	4609.0	4888.0	5020.9
12°	4947.8	4836.0	4591.7	4391.6	4320.3	4395.5	4620.6	4903.5	5055.5
13°	4959.2	4841.9	4595.5	4397.3	4324.3	4399.2	4628.2	4916.9	5078.6
14°	4959.2	4838.1	4595.5	4403.1	4335.8	4407.0	4634.0	4926.6	5084.3
15°	4955.5	4836.0	4595.5	4412.7	4345.4	4414.7	4639.8	4932.3	5092.0
16°	4943.9	4824.6	4593.6	4418.4	4355.0	4422.4	4641.8	4928.4	5086.3
17°	4920.8	4818.8	4586.0	4424.3	4364.7	4430.0	4641.8	4918.8	5072.7
18°	4889.9	4778.3	4566.7	4418.4	4366.6	4428.1	4630.3	4893.9	5047.9
19°	4863.0	4755.3	4553.2	4414.7	4374.2	4434.0	4622.5	4876.5	5020.9
20°	4820.7	4716.8	4530.2	4403.1	4368.5	4422.4	4603.3	4845.7	4984.3
21°	4768.8	4672.6	4497.4	4383.9	4358.8	4407.0	4576.3	4803.4	4934.2
22°	4716.8	4622.5	4462.8	4364.7	4343.5	4393.5	4547.5	4759.1	4882.3
23°	4655.1	4566.7	4418.4	4331.9	4320.3	4362.8	4507.1	4711.0	4820.7
24°	4586.0	4501.2	4370.4	4295.4	4291.5	4330.0	4460.8	4647.5	4747.6
25°	4507.1	4431.9	4310.8	4249.1	4253.1	4285.7	4405.0	4576.3	4668.8
26°	4412.7	4343.5	4241.5	4193.3	4199.2	4231.9	4341.5	4493.6	4582.0
27°	4306.8	4243.4	4160.7	4125.9	4141.5	4170.3	4264.5	4403.1	4474.3
28°	4174.1	4124.0	4064.4	4049.1	4068.3	4101.0	4179.9	4293.4	4356.9
29°	4020.2	3993.2	3947.1	3954.7	3981.6	4008.6	4074.0	4156.8	4206.8
30°	3854.7	3843.1	3816.1	3846.9	3877.8	3900.8	3945.2	4000.8	4039.4
31°	3685.3	3671.9	3675.6	3725.7	3771.9	3787.2	3812.3	3839.2	3868.1
32°	3494.8	3490.9	3506.3	3579.5	3639.2	3646.8	3648.7	3656.4	3671.9
33°	3300.4	3294.7	3325.5	3416.0	3483.2	3489.1	3473.6	3465.9	3477.5
34°	3098.4	3098.4	3138.8	3233.1	3312.0	3317.7	3286.9	3283.1	3271.5
35°	2904.0	2898.2	2944.4	3032.9	3121.4	3123.3	3088.7	3067.5	3065.6
37.5°	2422.8	2413.2	2428.6	2474.8	2540.2	2574.9	2571.1	2563.3	2557.6
40°	1984.0	1961.0	1930.3	1910.9	1930.3	2001.5	2063.0	2091.9	2097.6
42.5°	1570.4	1537.6	1472.2	1418.3	1426.0	1491.5	1585.7	1651.2	1683.9
45°	1170.0	1137.3	1083.5	1043.1	1043.1	1089.2	1168.1	1235.5	1272.0
47.5°	835.2	814.1	783.2	765.9	777.5	796.7	840.9	891.0	906.4
50°	575.4	569.6	552.4	552.4	563.8	579.3	586.9	612.0	617.7
52.5°	402.2	392.6	394.4	396.4	406.0	408.0	419.5	413.8	423.3
55°	263.6	263.6	263.6	269.4	273.3	273.3	267.5	263.6	263.6
57.5°	167.4	163.6	165.5	169.3	169.3	163.6	154.0	152.0	142.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	100.0	100.0	102.0	102.0	100.0	94.3	84.7	77.0	73.1
62.5°	52.0	53.9	53.9	63.6	53.9	48.0	44.3	34.6	32.7
65°	17.3	21.2	21.2	21.2	23.2	21.2	21.2	19.2	19.2
67.5°	11.6	13.5	13.5	15.4	15.4	15.4	15.4	19.2	13.5
70°	9.6	9.6	11.6	13.5	13.5	15.4	11.6	9.6	15.4
72.5°	5.7	7.6	5.7	9.6	7.6	7.6	7.6	7.6	7.6
75°	0.0	3.9	1.9	0.0	5.7	3.9	1.9	3.9	0.0
77.5°	1.9	1.9	1.9	1.9	3.9	3.9	3.9	3.9	1.9
80°	1.9	1.9	3.9	1.9	1.9	3.9	0.0	0.0	7.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9	1.9
85°	0.0	1.9	1.9	1.9	1.9	1.9	3.9	3.9	0.0
87.5°	0.0	1.9	0.0	1.9	0.0	0.0	0.0	3.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)