

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 EC8B809727 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 EC8B809727 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: 6058.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

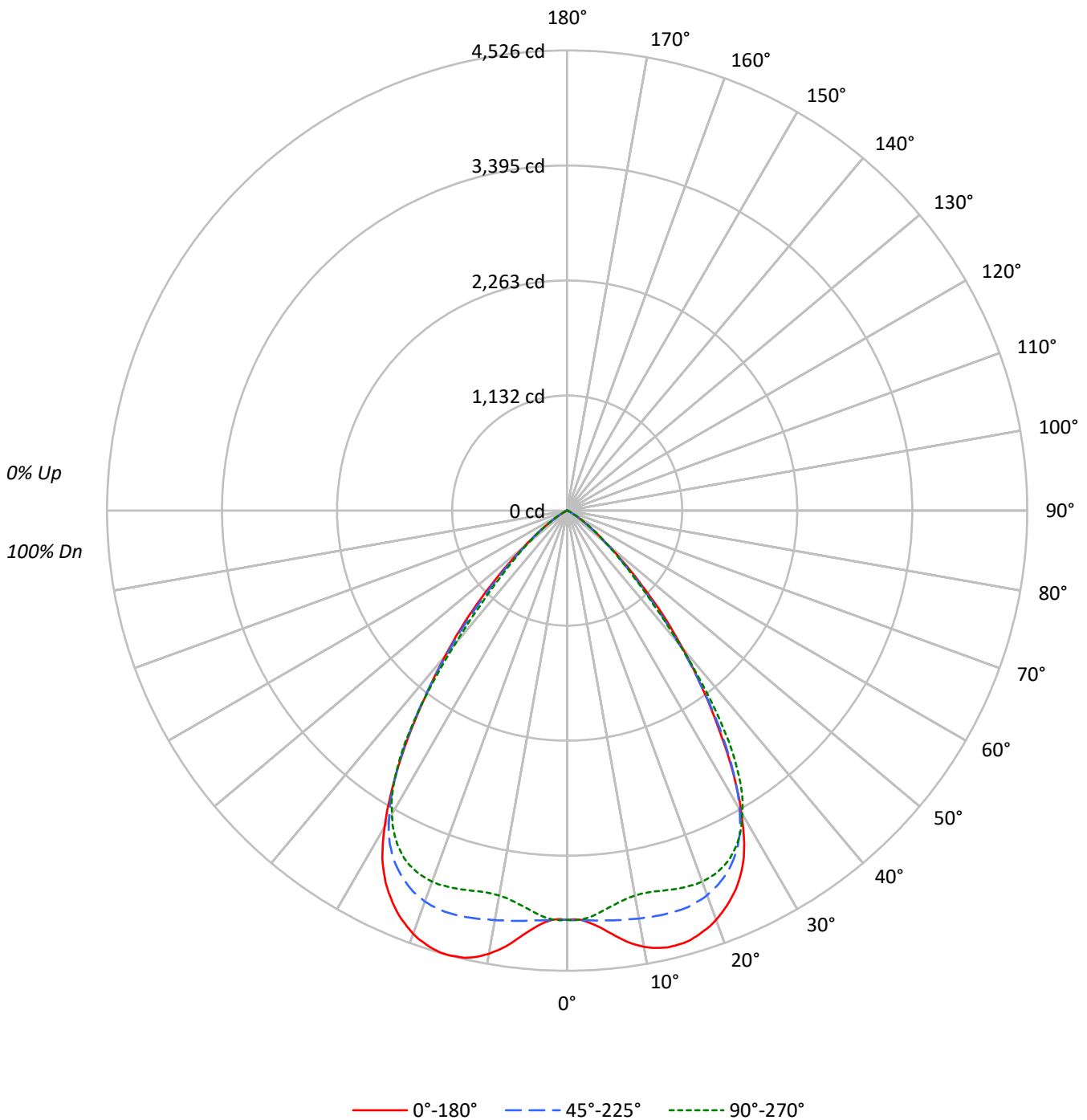
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247422

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247422

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBW0WH

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	66	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°			



TEST NUMBER: P247422

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.1	6.4
10°-20°	1167.8	19.3
20°-30°	1777.4	29.3
30°-40°	1654.1	27.3
40°-50°	805.1	13.3
50°-60°	229.4	3.8
60°-70°	30.0	0.5
70°-80°	4.8	0.1
80°-90°	1.4	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°	3333.3	55.0
0°-40°	4987.4	82.3
0°-60°	6021.8	99.4
0°-90°	6058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6058.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4027	4027	4027	4027	4027	
5°	4135	4044	3955	4047	4141	403
15°	4405	4085	3863	4124	4526	1239
25°	4006	3832	3780	3916	4150	1818
35°	2581	2617	2775	2746	2725	1605
45°	1040	963	927	1038	1131	822
55°	234	234	243	238	234	230
65°	15	19	21	19	17	29
75°	0	2	5	2	0	3
85°	0	2	2	4	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247422

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8
1°	4021.6	4026.8	4030.2	4028.5	4030.2	4028.5	4025.1	4018.2	4018.2
2°	4028.5	4035.3	4033.6	4030.2	4025.1	4025.1	4035.3	4021.6	4025.1
3°	4055.8	4055.8	4035.3	4016.5	4009.6	4016.5	4033.6	4043.9	4052.5
4°	4090.1	4083.2	4042.2	3999.4	3985.7	4002.8	4040.5	4072.9	4090.1
5°	4134.6	4114.0	4043.9	3978.9	3954.9	3980.6	4047.3	4108.9	4141.4
6°	4185.9	4155.0	4054.1	3956.6	3925.9	3961.8	4057.6	4151.7	4201.2
7°	4237.2	4187.6	4059.3	3939.5	3900.2	3949.8	4066.1	4199.5	4264.5
8°	4285.1	4218.3	4064.4	3924.2	3876.2	3927.5	4072.9	4242.3	4327.8
9°	4324.4	4247.4	4067.8	3912.2	3855.7	3913.9	4081.5	4279.9	4380.8
10°	4356.9	4269.7	4074.7	3905.3	3843.8	3907.1	4090.1	4312.5	4425.3
11°	4382.6	4285.1	4076.4	3901.9	3838.6	3901.9	4096.9	4344.9	4463.0
12°	4398.0	4298.7	4081.5	3903.6	3840.3	3907.1	4107.2	4358.7	4493.8
13°	4408.2	4303.9	4084.9	3908.7	3843.8	3910.4	4114.0	4370.6	4514.3
14°	4408.2	4300.5	4084.9	3913.9	3854.0	3917.3	4119.1	4379.2	4519.4
15°	4404.9	4298.7	4084.9	3922.4	3862.6	3924.2	4124.3	4384.3	4526.2
16°	4394.6	4288.5	4083.2	3927.5	3871.1	3931.0	4126.0	4380.8	4521.2
17°	4374.0	4283.4	4076.4	3932.7	3879.7	3937.8	4126.0	4372.3	4509.1
18°	4346.6	4247.4	4059.3	3927.5	3881.4	3936.1	4115.8	4350.1	4487.0
19°	4322.7	4226.9	4047.3	3924.2	3888.2	3941.3	4108.9	4334.7	4463.0
20°	4285.1	4192.7	4026.8	3913.9	3883.1	3931.0	4091.8	4307.3	4430.5
21°	4238.9	4153.4	3997.7	3896.8	3874.5	3917.3	4067.8	4269.7	4386.0
22°	4192.7	4108.9	3966.9	3879.7	3860.9	3905.3	4042.2	4230.3	4339.8
23°	4137.9	4059.3	3927.5	3850.6	3840.3	3878.0	4006.3	4187.6	4285.1
24°	4076.4	4001.1	3884.8	3818.1	3814.7	3848.9	3965.2	4131.1	4220.1
25°	4006.3	3939.5	3831.8	3777.0	3780.5	3809.5	3915.6	4067.8	4150.0
26°	3922.4	3860.9	3770.2	3727.4	3732.6	3761.7	3859.1	3994.3	4072.9
27°	3828.3	3771.9	3698.4	3667.5	3681.3	3706.9	3790.7	3913.9	3977.2
28°	3710.3	3665.8	3612.8	3599.2	3616.3	3645.3	3715.5	3816.4	3872.8
29°	3573.5	3549.5	3508.5	3515.3	3539.2	3563.2	3621.3	3694.9	3739.4
30°	3426.4	3416.1	3392.1	3419.5	3446.9	3467.4	3506.8	3556.3	3590.6
31°	3275.8	3263.9	3267.2	3311.7	3352.8	3366.4	3388.7	3412.6	3438.3
32°	3106.5	3103.0	3116.7	3181.8	3234.8	3241.6	3243.3	3250.1	3263.9
33°	2933.7	2928.6	2956.0	3036.4	3096.2	3101.4	3087.6	3080.8	3091.1
34°	2754.1	2754.1	2790.0	2873.9	2944.0	2949.1	2921.7	2918.3	2908.0
35°	2581.3	2576.2	2617.2	2695.9	2774.6	2776.3	2745.5	2726.7	2725.0
37.5°	2153.6	2145.1	2158.8	2199.8	2258.0	2288.8	2285.4	2278.5	2273.4
40°	1763.6	1743.1	1715.8	1698.6	1715.8	1779.1	1833.8	1859.5	1864.5
42.5°	1395.9	1366.8	1308.6	1260.7	1267.6	1325.8	1409.5	1467.7	1496.8
45°	1040.0	1010.9	963.1	927.2	927.2	968.2	1038.3	1098.2	1130.7
47.5°	742.4	723.6	696.2	680.8	691.1	708.2	747.5	792.0	805.7
50°	511.5	506.3	491.0	491.0	501.2	514.9	521.7	544.0	549.1
52.5°	357.5	349.0	350.6	352.4	360.9	362.7	372.9	367.8	376.3
55°	234.3	234.3	234.3	239.5	242.9	242.9	237.8	234.3	234.3
57.5°	148.8	145.4	147.1	150.5	150.5	145.4	136.9	135.1	126.6



TEST NUMBER: P247422

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	88.9	88.9	90.7	90.7	88.9	83.8	75.3	68.4	65.0
62.5°	46.2	47.9	47.9	56.5	47.9	42.7	39.4	30.8	29.1
65°	15.4	18.8	18.8	18.8	20.6	18.8	18.8	17.1	17.1
67.5°	10.3	12.0	12.0	13.7	13.7	13.7	13.7	17.1	12.0
70°	8.5	8.5	10.3	12.0	12.0	13.7	10.3	8.5	13.7
72.5°	5.1	6.8	5.1	8.5	6.8	6.8	6.8	6.8	6.8
75°	0.0	3.5	1.7	0.0	5.1	3.5	1.7	3.5	0.0
77.5°	1.7	1.7	1.7	1.7	3.5	3.5	3.5	3.5	1.7
80°	1.7	1.7	3.5	1.7	1.7	3.5	0.0	0.0	6.8
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7	1.7
85°	0.0	1.7	1.7	1.7	1.7	1.7	3.5	3.5	0.0
87.5°	0.0	1.7	0.0	1.7	0.0	0.0	0.0	3.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)