

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: P247138

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809730 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6926.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

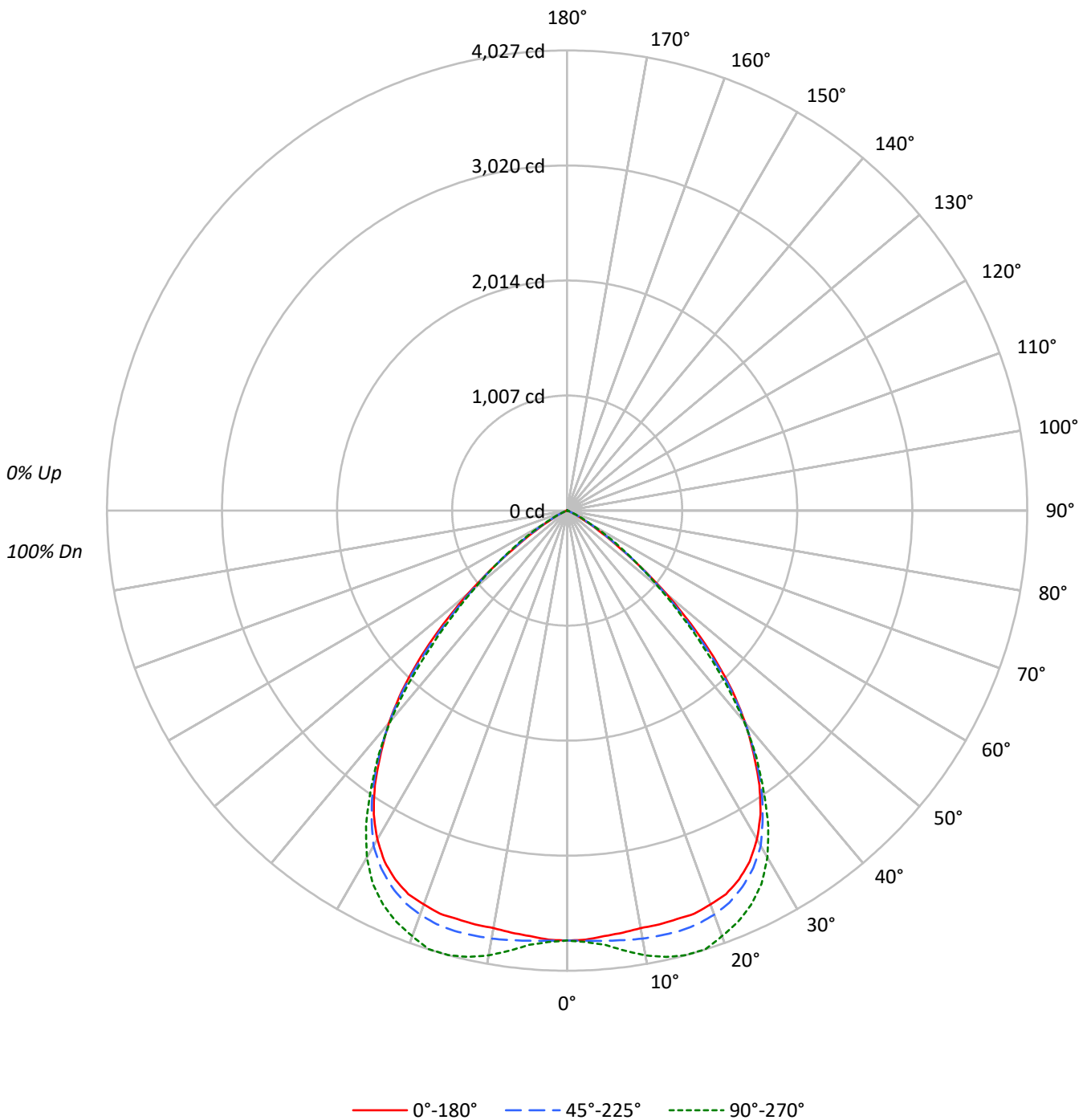
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
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°	362.0	5.2
10°-20°	1083.9	15.6
20°-30°	1677.1	24.2
30°-40°	1837.0	26.5
40°-50°	1343.9	19.4
50°-60°	527.3	7.6
60°-70°	85.3	1.2
70°-80°	7.9	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°	3123.0	45.1
0°-40°	4960.0	71.6
0°-60°	6831.2	98.6
0°-90°	6926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3762	3762	3762	3762	3762	
5°	3738	3747	3779	3806	3814	356
15°	3702	3726	3808	3950	4027	1048
25°	3561	3572	3633	3743	3807	1633
35°	2933	2938	2964	2992	2999	1816
45°	1811	1808	1759	1705	1682	1379
55°	519	530	552	572	592	511
65°	62	60	66	72	77	75
75°	4	7	8	6	7	8
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3762.1	3762.1	3762.1	3762.1	3762.1
2.5°	3758.4	3760.7	3768.0	3775.4	3779.8
5°	3737.8	3746.7	3779.1	3806.3	3814.4
7.5°	3725.3	3740.0	3790.9	3859.4	3885.9
10°	3709.8	3731.2	3803.4	3900.6	3952.2
12.5°	3710.6	3731.2	3807.8	3934.5	4000.8
15°	3701.7	3726.0	3808.5	3950.0	4026.6
17.5°	3699.5	3711.3	3795.3	3938.9	4023.6
20°	3667.8	3684.0	3762.9	3890.3	3963.2
22.5°	3633.2	3640.6	3712.8	3838.0	3899.9
25°	3561.0	3572.1	3633.2	3743.0	3807.1
27.5°	3461.6	3463.8	3525.7	3627.3	3683.3
30°	3322.3	3333.4	3388.6	3463.8	3503.6
32.5°	3150.0	3148.5	3184.6	3250.1	3275.9
35°	2933.4	2938.5	2963.6	2991.6	2998.9
37.5°	2679.2	2685.9	2702.8	2712.4	2719.0
40°	2425.8	2425.8	2423.6	2413.3	2405.2
42.5°	2137.1	2127.5	2116.4	2070.8	2050.9
45°	1810.7	1807.8	1759.1	1705.4	1681.8
47.5°	1467.4	1451.2	1400.4	1356.9	1347.4
50°	1130.8	1113.8	1087.3	1065.9	1052.0
52.5°	805.9	793.4	804.4	804.4	803.0
55°	519.3	530.4	552.5	572.4	591.5
57.5°	329.3	344.0	377.9	403.7	410.3
60°	188.6	199.6	223.2	246.0	250.5
62.5°	118.6	119.3	134.8	148.1	156.2
65°	61.9	60.4	65.6	72.2	77.3
67.5°	25.8	25.8	30.9	30.2	38.3
70°	13.3	11.0	12.5	14.7	16.9
72.5°	9.6	7.4	10.3	13.3	5.9
75°	4.4	6.6	8.1	5.9	7.4
77.5°	5.9	5.9	4.4	7.4	1.5
80°	4.4	2.9	5.2	2.2	0.0
82.5°	0.7	1.5	0.7	0.7	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.2	3.7	2.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)