

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: P247614

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4331.3 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

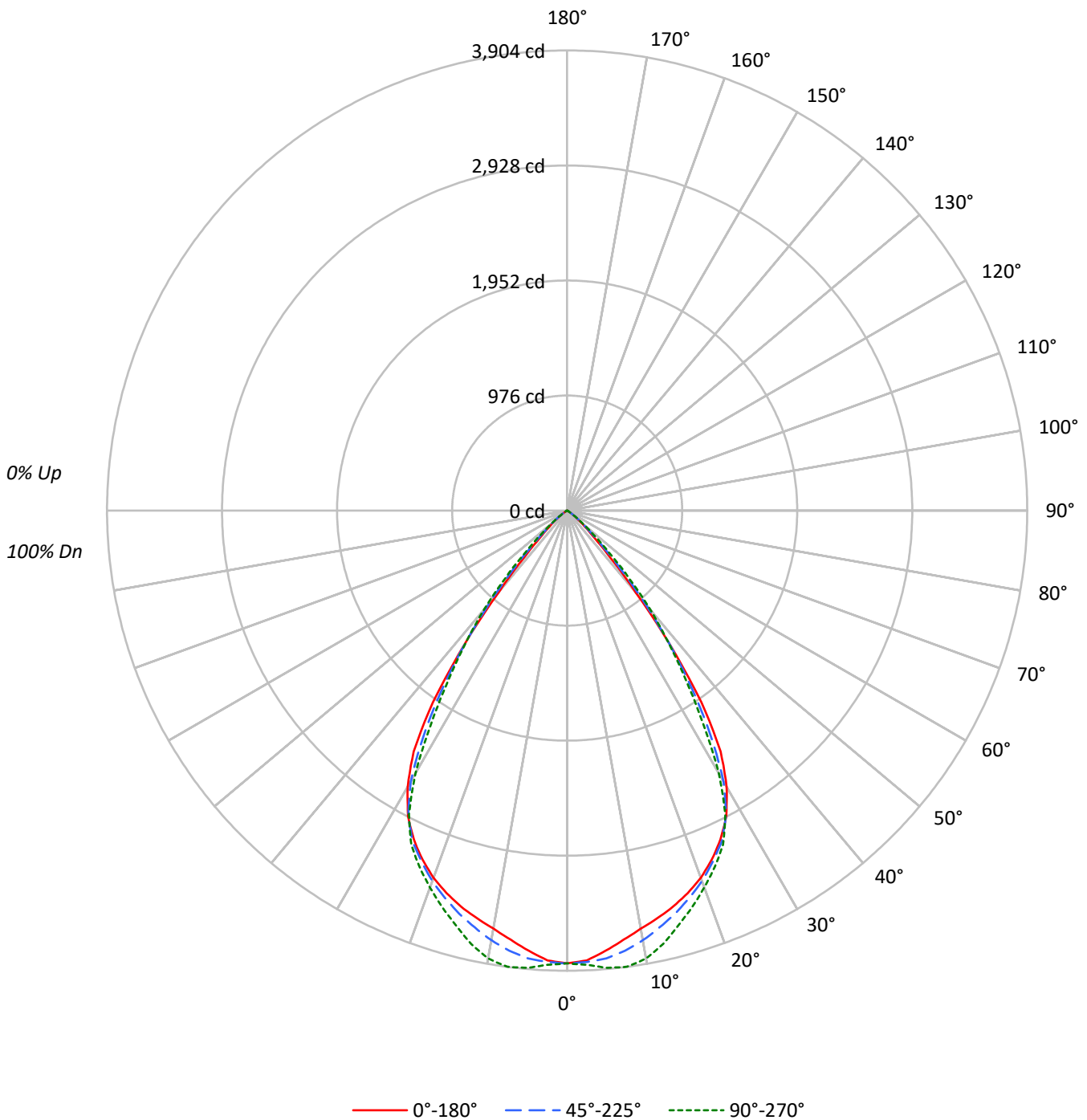
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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°	361.1	8.3
10°-20°	999.3	23.1
20°-30°	1408.1	32.5
30°-40°	1139.2	26.3
40°-50°	361.7	8.3
50°-60°	57.8	1.3
60°-70°	3.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2768.6	63.9
0°-40°	3907.8	90.2
0°-60°	4327.3	99.9
0°-90°	4331.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4331.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3842	3842	3842	3842	3842	
5°	3748	3766	3814	3870	3894	353
15°	3478	3492	3540	3608	3644	980
25°	3079	3084	3101	3118	3128	1406
35°	1984	1930	1848	1782	1756	1176
45°	322	348	414	473	502	300
55°	51	52	55	57	56	53
65°	2	2	2	2	2	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3841.8	3841.8	3841.8	3841.8	3841.8
2.5°	3819.8	3823.8	3833.1	3851.1	3856.6
5°	3748.5	3765.7	3814.3	3869.9	3894.2
7.5°	3671.8	3694.5	3765.7	3859.8	3903.6
10°	3601.2	3625.5	3701.6	3801.8	3859.0
12.5°	3541.7	3560.5	3622.4	3712.5	3765.7
15°	3478.3	3491.7	3540.2	3607.5	3644.3
17.5°	3402.3	3414.0	3446.2	3498.6	3526.9
20°	3314.6	3317.7	3345.2	3378.8	3403.1
22.5°	3205.8	3208.8	3224.6	3256.6	3273.1
25°	3078.9	3084.3	3100.8	3118.0	3128.2
27.5°	2923.0	2925.3	2917.6	2903.4	2906.5
30°	2706.9	2698.2	2654.3	2594.0	2576.0
32.5°	2423.4	2366.1	2271.4	2186.8	2152.4
35°	1983.9	1929.8	1848.4	1781.9	1756.0
37.5°	1425.5	1429.4	1423.9	1409.1	1412.2
40°	901.5	937.6	1022.8	1078.5	1095.8
42.5°	541.2	580.4	674.3	749.6	773.8
45°	321.9	347.7	414.3	473.1	502.1
47.5°	206.8	219.3	252.2	286.7	303.1
50°	137.0	143.3	156.6	172.4	179.3
52.5°	87.8	90.1	96.3	101.8	107.3
55°	51.0	51.6	54.8	57.2	56.4
57.5°	26.7	26.7	26.7	26.7	26.7
60°	14.8	14.1	14.1	14.1	13.3
62.5°	7.1	7.1	7.1	6.3	6.3
65°	1.6	2.4	2.4	2.4	2.4
67.5°	0.0	0.0	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)