

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: P247662

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 6090.8 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

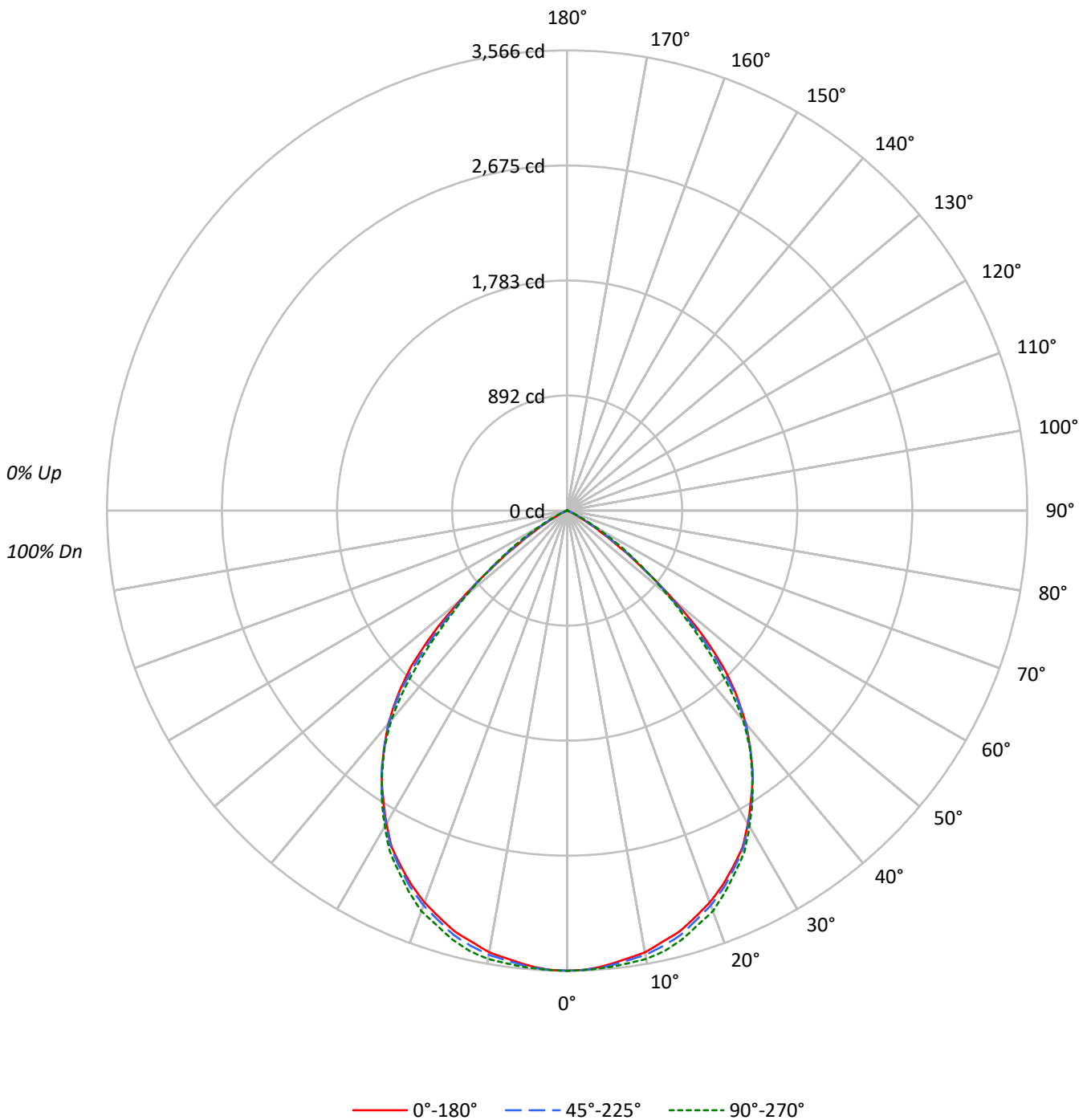
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	82
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		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°	336.8	5.5
10°-20°	958.4	15.7
20°-30°	1407.9	23.1
30°-40°	1558.8	25.6
40°-50°	1242.3	20.4
50°-60°	509.0	8.4
60°-70°	75.0	1.2
70°-80°	1.1	0.0
80°-90°	1.5	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°	2703.1	44.4
0°-40°	4261.9	70.0
0°-60°	6013.2	98.7
0°-90°	6090.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6090.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3566	3566	3566	3566	3566	
5°	3536	3543	3546	3551	3555	336
15°	3375	3378	3404	3436	3441	950
25°	3044	3041	3060	3078	3088	1400
35°	2506	2503	2510	2506	2499	1557
45°	1709	1694	1639	1578	1564	1283
55°	503	520	547	578	579	484
65°	48	50	59	64	63	63
75°	0	0	0	0	0	2
85°	0	0	0	3	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3566.2	3566.2	3566.2	3566.2	3566.2
2.5°	3560.0	3560.7	3560.7	3556.8	3561.5
5°	3536.4	3542.7	3545.9	3551.4	3554.6
7.5°	3503.6	3502.0	3518.4	3538.0	3540.4
10°	3476.1	3473.0	3494.9	3520.8	3527.9
12.5°	3422.1	3426.1	3454.2	3480.9	3494.9
15°	3375.1	3377.5	3404.1	3436.2	3440.9
17.5°	3302.3	3309.3	3327.3	3361.0	3367.2
20°	3231.0	3234.2	3254.5	3282.0	3302.3
22.5°	3144.0	3149.5	3165.2	3189.5	3199.7
25°	3043.8	3040.6	3060.2	3078.2	3087.7
27.5°	2942.0	2936.5	2951.3	2968.6	2977.2
30°	2801.0	2799.5	2808.0	2819.0	2826.0
32.5°	2653.0	2656.9	2665.5	2668.6	2671.0
35°	2505.7	2502.6	2509.6	2506.5	2499.4
37.5°	2331.0	2333.4	2333.4	2330.2	2327.1
40°	2153.2	2155.6	2150.9	2133.7	2121.1
42.5°	1944.9	1946.5	1922.2	1883.8	1857.9
45°	1709.1	1693.5	1639.4	1578.3	1564.2
47.5°	1412.2	1385.7	1329.2	1283.0	1266.5
50°	1080.1	1060.5	1041.8	1017.4	1012.7
52.5°	757.5	767.6	774.7	782.4	780.2
55°	502.9	520.1	546.8	578.0	578.8
57.5°	302.3	322.0	355.6	390.0	406.6
60°	177.8	185.6	209.9	235.8	243.6
62.5°	96.3	98.7	109.7	135.6	131.6
65°	47.8	50.2	58.7	64.2	62.7
67.5°	23.5	25.9	27.4	35.2	29.0
70°	5.5	1.6	3.2	3.9	1.6
72.5°	0.0	0.0	1.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0	3.2
80°	7.1	4.7	1.6	1.6	2.4
82.5°	2.4	0.8	2.4	0.8	0.0
85°	0.0	0.0	0.0	3.2	0.0
87.5°	3.9	0.8	0.8	2.4	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)