

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: P247470

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809727 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6498.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

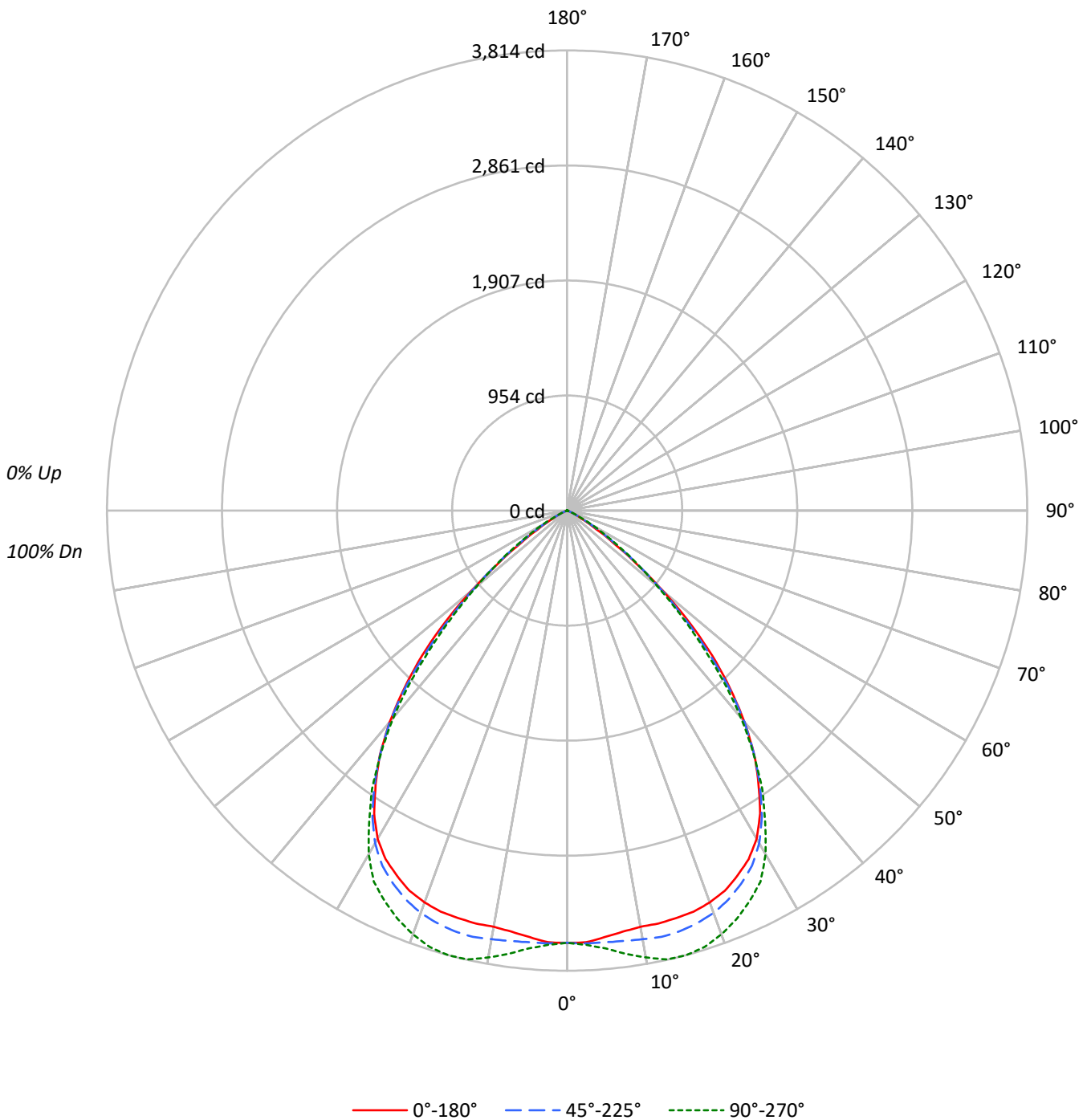
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	344.0	5.3
10°-20°	1025.2	15.8
20°-30°	1577.7	24.3
30°-40°	1728.0	26.6
40°-50°	1256.4	19.3
50°-60°	483.3	7.4
60°-70°	75.7	1.2
70°-80°	5.5	0.1
80°-90°	2.2	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°	2947.0	45.4
0°-40°	4674.9	71.9
0°-60°	6414.7	98.7
0°-90°	6498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3583	3583	3583	3583	3583	
5°	3549	3567	3592	3626	3642	337
15°	3496	3523	3610	3743	3814	989
25°	3339	3359	3413	3514	3574	1536
35°	2766	2766	2784	2801	2819	1718
45°	1700	1682	1636	1595	1573	1292
55°	470	483	510	527	542	459
65°	53	55	56	64	66	65
75°	4	9	7	9	9	5
85°	1	0	0	0	1	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3582.6	3582.6	3582.6	3582.6	3582.6
2.5°	3581.9	3587.5	3590.9	3598.6	3602.1
5°	3549.2	3567.3	3591.6	3625.8	3641.8
7.5°	3520.6	3545.7	3597.9	3671.7	3704.4
10°	3502.5	3529.7	3607.7	3707.9	3760.8
12.5°	3504.6	3534.5	3618.8	3739.3	3810.3
15°	3495.5	3522.7	3609.7	3743.4	3814.5
17.5°	3485.1	3507.4	3584.7	3715.6	3792.2
20°	3455.9	3474.7	3548.5	3666.8	3737.9
22.5°	3412.0	3429.4	3490.7	3600.7	3666.1
25°	3338.9	3359.1	3412.7	3513.7	3574.2
27.5°	3257.4	3269.2	3318.7	3410.6	3468.4
30°	3141.8	3146.0	3182.9	3253.9	3288.7
32.5°	2976.8	2976.1	3003.9	3039.5	3052.7
35°	2765.8	2765.8	2783.9	2801.3	2818.7
37.5°	2546.5	2543.7	2545.8	2549.9	2535.3
40°	2286.0	2280.5	2283.2	2258.2	2242.2
42.5°	2000.5	2005.4	1977.6	1933.0	1916.3
45°	1699.7	1682.3	1636.4	1594.6	1573.0
47.5°	1380.1	1353.0	1309.1	1265.9	1262.4
50°	1037.5	1038.9	1010.4	986.0	976.2
52.5°	720.0	727.7	742.3	745.1	748.5
55°	470.0	482.6	510.4	527.1	541.7
57.5°	287.6	310.6	334.2	365.6	368.4
60°	167.8	179.0	205.4	229.1	239.5
62.5°	94.7	105.1	110.7	124.6	128.1
65°	52.9	55.0	56.4	64.1	66.2
67.5°	32.0	33.4	34.8	34.1	35.5
70°	2.8	6.3	2.8	3.5	2.1
72.5°	11.8	7.7	8.4	6.3	4.2
75°	4.2	9.1	7.0	9.1	9.1
77.5°	2.8	2.1	3.5	4.2	3.5
80°	0.7	0.0	0.0	0.0	0.0
82.5°	6.3	5.6	3.5	5.6	2.1
85°	1.4	0.0	0.0	0.0	1.4
87.5°	4.2	2.1	2.1	4.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)