

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 EC8B809727 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 EC8B809727 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: 3850.0 lumens
Efficiency: N/A
Efficacy: 51.7 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

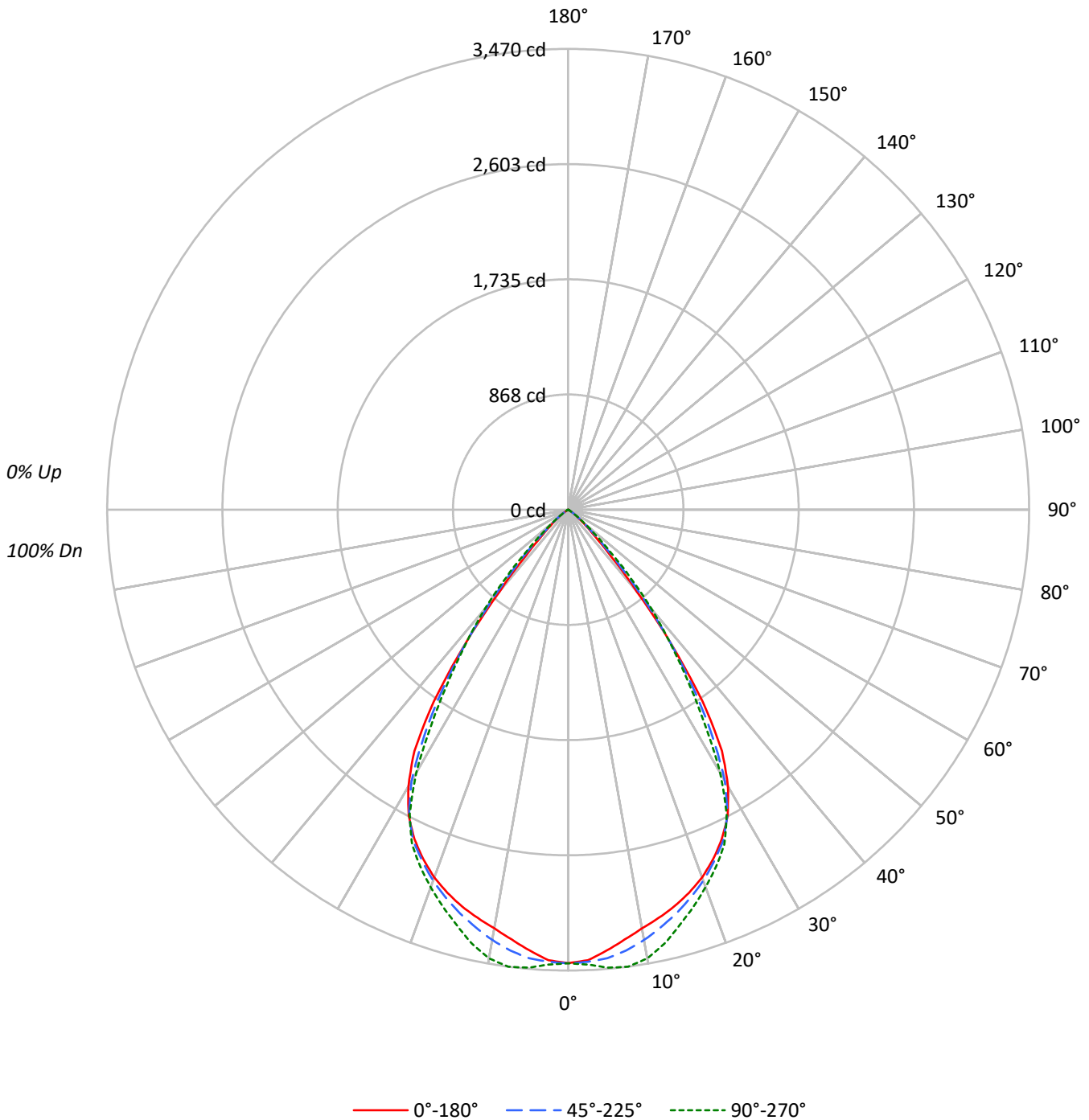
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	321.0	8.3
10°-20°	888.3	23.1
20°-30°	1251.7	32.5
30°-40°	1012.7	26.3
40°-50°	321.5	8.3
50°-60°	51.4	1.3
60°-70°	3.5	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°	2461.0	63.9
0°-40°	3473.6	90.2
0°-60°	3846.5	99.9
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3415	3415	3415	3415	3415	
5°	3332	3347	3390	3440	3462	314
15°	3092	3104	3147	3207	3239	871
25°	2737	2742	2756	2772	2781	1250
35°	1764	1715	1643	1584	1561	1046
45°	286	309	368	420	446	267
55°	45	46	49	51	50	47
65°	1	2	2	2	2	3
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°	3414.9	3414.9	3414.9	3414.9	3414.9
2.5°	3395.4	3398.9	3407.2	3423.2	3428.1
5°	3332.0	3347.3	3390.5	3439.9	3461.5
7.5°	3263.8	3284.0	3347.3	3430.9	3469.9
10°	3201.1	3222.7	3290.3	3379.4	3430.2
12.5°	3148.2	3164.9	3219.9	3300.0	3347.3
15°	3091.8	3103.7	3146.8	3206.7	3239.4
17.5°	3024.3	3034.7	3063.3	3109.9	3135.0
20°	2946.3	2949.1	2973.5	3003.4	3025.0
22.5°	2849.6	2852.3	2866.3	2894.8	2909.4
25°	2736.8	2741.6	2756.3	2771.6	2780.6
27.5°	2598.2	2600.3	2593.4	2580.8	2583.6
30°	2406.1	2398.4	2359.4	2305.8	2289.8
32.5°	2154.1	2103.2	2019.0	1943.8	1913.2
35°	1763.5	1715.4	1643.0	1583.9	1560.9
37.5°	1267.1	1270.6	1265.7	1252.5	1255.3
40°	801.3	833.4	909.2	958.7	974.0
42.5°	481.1	515.9	599.4	666.3	687.8
45°	286.1	309.1	368.3	420.5	446.3
47.5°	183.8	194.9	224.2	254.8	269.4
50°	121.8	127.4	139.2	153.2	159.4
52.5°	78.0	80.1	85.6	90.5	95.4
55°	45.3	45.9	48.7	50.8	50.1
57.5°	23.7	23.7	23.7	23.7	23.7
60°	13.2	12.5	12.5	12.5	11.8
62.5°	6.3	6.3	6.3	5.6	5.6
65°	1.4	2.1	2.1	2.1	2.1
67.5°	0.0	0.0	0.0	0.0	0.7
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)