

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: P247374

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B809727 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6243.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

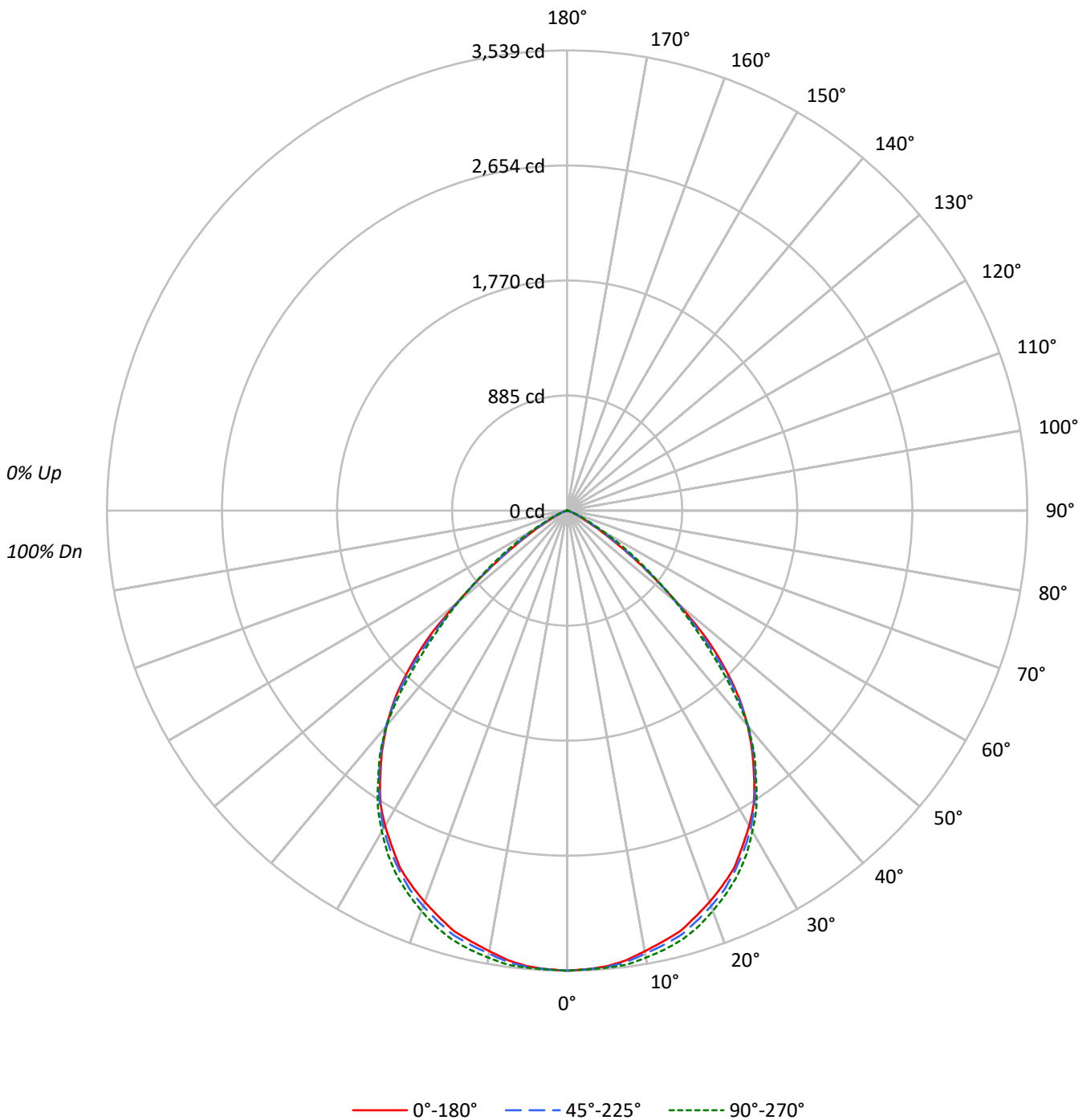
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	91	91	91		
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81	81	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72	72		
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64	64		
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58	58		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52		
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47		
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43	43	43	43	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	39	39	39	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	36	36		

**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°	334.4	5.4
10°-20°	951.4	15.2
20°-30°	1405.6	22.5
30°-40°	1570.6	25.2
40°-50°	1268.0	20.3
50°-60°	564.0	9.0
60°-70°	127.0	2.0
70°-80°	19.6	0.3
80°-90°	2.3	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°	2691.4	43.1
0°-40°	4262.0	68.3
0°-60°	6094.0	97.6
0°-90°	6243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3539	3539	3539	3539	3539	
5°	3518	3517	3523	3524	3530	333
15°	3351	3353	3380	3405	3416	942
25°	3036	3036	3055	3080	3098	1392
35°	2507	2505	2522	2525	2535	1562
45°	1718	1705	1672	1613	1606	1299
55°	571	579	605	636	655	537
65°	94	106	114	123	130	109
75°	12	17	18	17	21	16
85°	1	2	4	8	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3538.6	3538.6	3538.6	3538.6	3538.6
2.5°	3529.6	3527.5	3531.0	3528.9	3532.4
5°	3517.7	3517.0	3523.3	3524.0	3529.6
7.5°	3487.1	3487.8	3501.0	3510.8	3521.9
10°	3440.4	3443.2	3460.6	3482.2	3491.3
12.5°	3395.9	3399.4	3421.6	3451.6	3458.6
15°	3350.6	3352.7	3379.9	3404.9	3416.1
17.5°	3276.8	3290.7	3311.6	3340.2	3354.8
20°	3203.0	3212.8	3236.4	3267.8	3276.1
22.5°	3122.2	3132.7	3156.4	3182.1	3191.2
25°	3035.9	3035.9	3055.4	3080.5	3097.9
27.5°	2915.4	2930.1	2944.0	2966.3	2983.7
30°	2800.5	2806.1	2822.8	2840.9	2849.3
32.5°	2673.1	2673.8	2681.5	2701.7	2709.3
35°	2506.7	2505.3	2522.0	2524.8	2535.3
37.5°	2340.3	2347.2	2353.5	2363.3	2364.0
40°	2158.5	2162.0	2169.0	2158.5	2163.4
42.5°	1960.8	1955.9	1942.7	1911.4	1898.1
45°	1717.8	1704.6	1672.5	1613.3	1605.7
47.5°	1449.7	1417.0	1378.0	1334.1	1325.8
50°	1114.8	1117.6	1098.1	1083.5	1084.8
52.5°	812.6	822.3	827.2	841.1	848.8
55°	571.0	579.3	605.1	636.4	655.2
57.5°	369.7	385.8	419.2	454.7	467.9
60°	236.0	246.5	276.4	302.2	319.6
62.5°	154.6	158.1	174.8	198.4	199.1
65°	94.0	105.8	113.5	123.2	130.2
67.5°	61.3	61.3	68.2	77.3	79.4
70°	35.5	36.2	39.7	43.2	45.3
72.5°	19.5	21.6	23.7	27.2	30.6
75°	12.5	17.4	18.1	17.4	20.9
77.5°	8.4	8.4	7.0	11.8	12.5
80°	7.0	4.9	6.3	9.1	9.7
82.5°	0.0	0.7	0.7	1.4	0.0
85°	1.4	2.1	3.5	7.7	2.1
87.5°	0.0	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)