

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: P247278

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B809727 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 5744.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

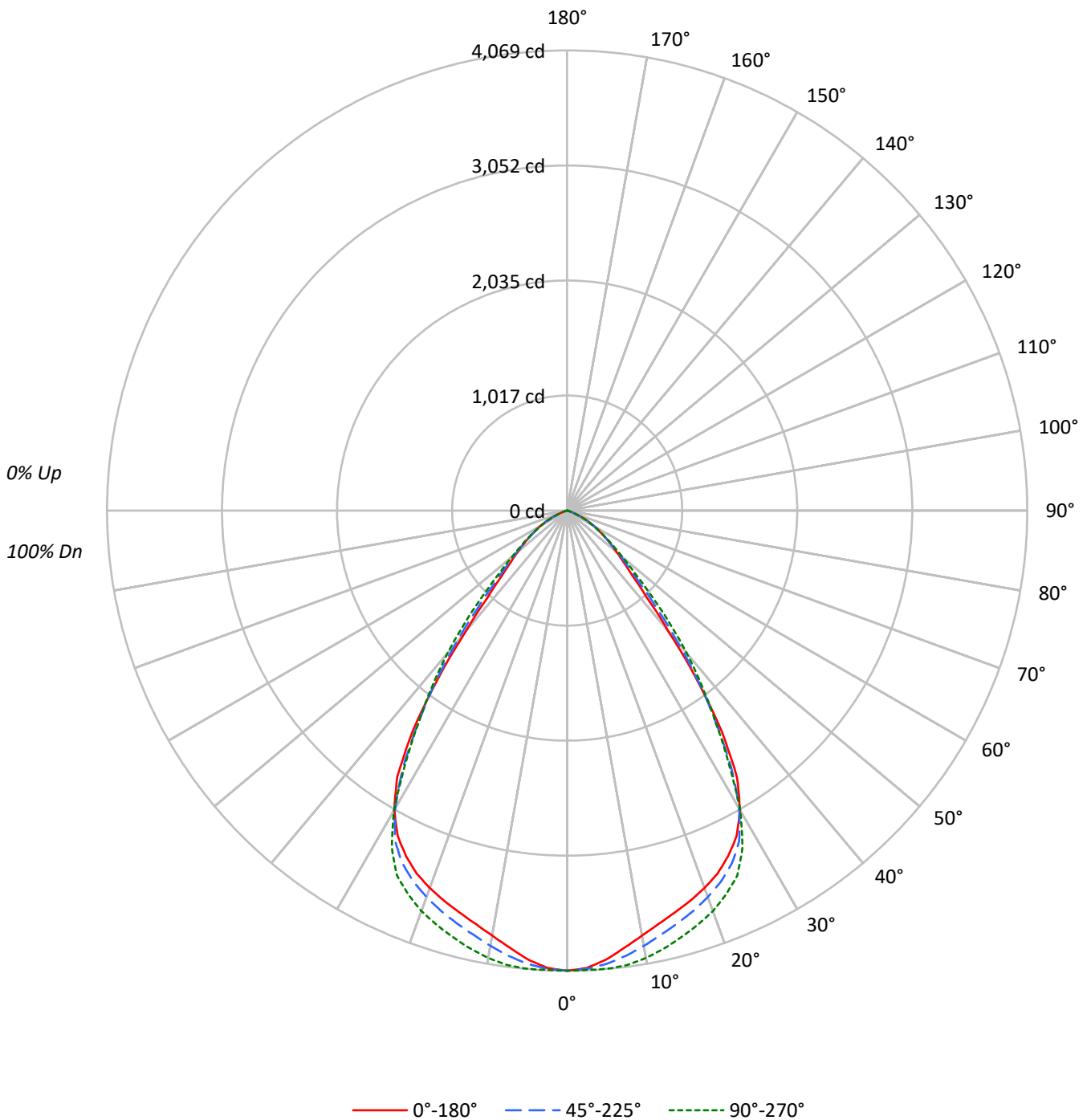
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83	83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75	75	75	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68	68	68	68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	56	56	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51	51	51	51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	47	47	47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40	40	40	40			

**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°	380.5	6.6
10°-20°	1068.5	18.6
20°-30°	1573.7	27.4
30°-40°	1431.3	24.9
40°-50°	740.9	12.9
50°-60°	371.2	6.5
60°-70°	151.2	2.6
70°-80°	24.1	0.4
80°-90°	2.6	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
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0°-30°	3022.7	52.6
0°-40°	4454.0	77.5
0°-60°	5566.1	96.9
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4069	4069	4069	4069	4069	
5°	3984	3994	4022	4053	4067	375
15°	3679	3704	3776	3864	3905	1040
25°	3371	3394	3445	3524	3561	1543
35°	2383	2367	2298	2279	2293	1437
45°	817	845	908	978	1022	673
55°	404	402	402	410	417	367
65°	156	155	150	148	146	157
75°	21	20	19	17	17	26
85°	2	2	2	1	1	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4068.9	4068.9	4068.9	4068.9	4068.9
2.5°	4047.3	4049.4	4055.0	4061.3	4066.1
5°	3984.0	3994.4	4022.3	4052.9	4066.8
7.5°	3897.6	3920.6	3971.5	4028.5	4053.6
10°	3815.5	3841.9	3908.1	3984.7	4016.7
12.5°	3743.1	3768.8	3840.6	3926.2	3965.9
15°	3679.0	3704.1	3776.5	3863.5	3905.3
17.5°	3618.4	3641.4	3710.4	3797.4	3839.9
20°	3550.9	3571.1	3636.6	3720.8	3768.1
22.5°	3474.3	3489.6	3550.9	3631.0	3672.8
25°	3370.6	3393.6	3445.1	3523.8	3560.7
27.5°	3243.9	3258.5	3294.0	3342.0	3357.4
30°	3055.9	3055.2	3043.3	3043.3	3062.8
32.5°	2794.8	2761.4	2705.0	2670.8	2668.1
35°	2382.6	2367.3	2298.3	2278.9	2292.8
37.5°	1879.9	1890.3	1907.7	1935.6	1960.7
40°	1396.0	1422.5	1520.6	1608.4	1646.6
42.5°	1041.6	1075.7	1176.0	1272.1	1318.7
45°	816.7	845.3	907.9	978.2	1022.1
47.5°	675.4	690.0	723.4	770.8	793.0
50°	571.6	578.6	593.9	618.3	635.7
52.5°	485.3	482.5	490.9	506.9	513.1
55°	403.8	402.4	402.4	410.1	417.1
57.5°	334.9	332.8	328.6	332.1	334.2
60°	274.3	272.2	268.8	268.1	267.4
62.5°	220.7	217.2	210.3	208.9	208.9
65°	156.0	155.3	149.7	147.6	145.5
67.5°	96.8	94.0	89.1	84.9	84.2
70°	57.8	57.1	52.9	50.1	50.1
72.5°	34.8	33.4	31.3	29.9	29.2
75°	20.9	20.2	18.8	17.4	17.4
77.5°	12.5	11.8	11.1	10.4	10.4
80°	7.0	7.0	6.3	6.3	6.3
82.5°	4.2	4.2	3.5	3.5	3.5
85°	2.1	2.1	2.1	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)