

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 EC8B80927 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 EC8B80927 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: 6462.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

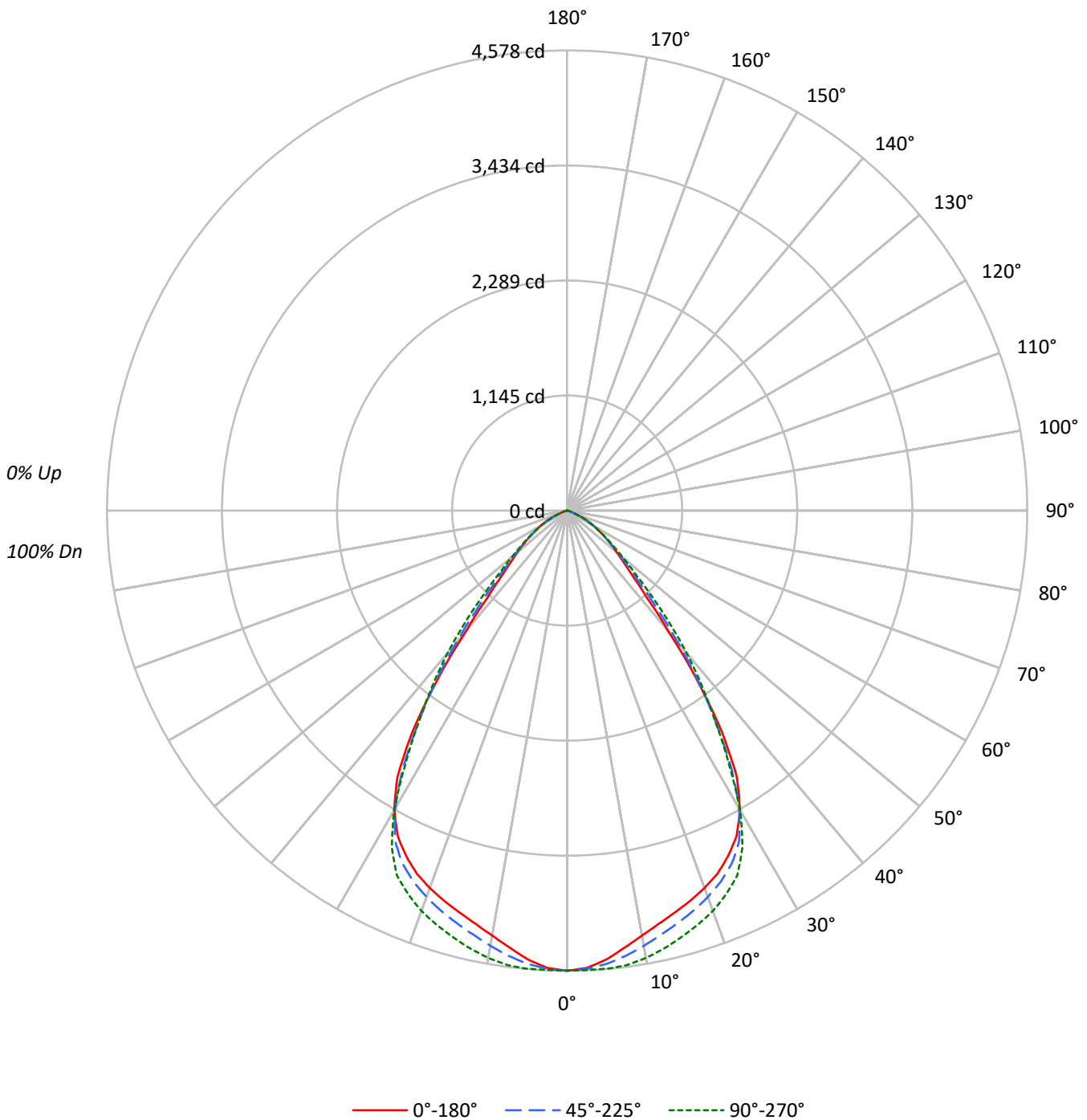
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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						
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83						
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75						
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68						
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61						
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56						
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51						
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47						
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44						
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	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°	428.1	6.6
10°-20°	1202.1	18.6
20°-30°	1770.4	27.4
30°-40°	1610.2	24.9
40°-50°	833.6	12.9
50°-60°	417.6	6.5
60°-70°	170.1	2.6
70°-80°	27.1	0.4
80°-90°	2.9	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°	3400.5	52.6
0°-40°	5010.7	77.5
0°-60°	6261.9	96.9
0°-90°	6462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4578	4578	4578	4578	4578	
5°	4482	4494	4525	4560	4575	422
15°	4139	4167	4249	4346	4394	1170
25°	3792	3818	3876	3964	4006	1736
35°	2680	2663	2586	2564	2579	1616
45°	919	951	1021	1100	1150	757
55°	454	453	453	461	469	413
65°	176	175	168	166	164	177
75°	24	23	21	20	20	30
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4577.5	4577.5	4577.5	4577.5	4577.5
2.5°	4553.2	4555.6	4561.9	4569.0	4574.4
5°	4482.0	4493.7	4525.1	4559.5	4575.2
7.5°	4384.8	4410.7	4467.9	4532.1	4560.3
10°	4292.4	4322.1	4396.6	4482.8	4518.8
12.5°	4211.0	4239.9	4320.7	4417.0	4461.6
15°	4138.9	4167.1	4248.6	4346.4	4393.5
17.5°	4070.7	4096.6	4174.2	4272.1	4319.9
20°	3994.8	4017.5	4091.2	4185.9	4239.1
22.5°	3908.6	3925.8	3994.8	4084.9	4131.9
25°	3791.9	3817.8	3875.7	3964.3	4005.8
27.5°	3649.4	3665.8	3705.8	3759.8	3777.1
30°	3437.9	3437.1	3423.7	3423.7	3445.6
32.5°	3144.2	3106.6	3043.1	3004.6	3001.6
35°	2680.4	2663.2	2585.6	2563.8	2579.4
37.5°	2114.9	2126.6	2146.2	2177.5	2205.8
40°	1570.5	1600.3	1710.7	1809.4	1852.4
42.5°	1171.8	1210.2	1323.0	1431.1	1483.5
45°	918.8	951.0	1021.4	1100.5	1149.9
47.5°	759.8	776.2	813.8	867.2	892.1
50°	643.1	650.9	668.1	695.6	715.2
52.5°	546.0	542.8	552.3	570.3	577.2
55°	454.3	452.7	452.7	461.4	469.2
57.5°	376.8	374.4	369.7	373.6	376.0
60°	308.6	306.2	302.4	301.6	300.8
62.5°	248.3	244.4	236.6	235.0	235.0
65°	175.5	174.7	168.4	166.0	163.7
67.5°	108.9	105.8	100.2	95.5	94.7
70°	65.0	64.2	59.5	56.4	56.4
72.5°	39.2	37.6	35.2	33.6	32.8
75°	23.5	22.7	21.2	19.6	19.6
77.5°	14.1	13.3	12.5	11.7	11.7
80°	7.9	7.9	7.1	7.1	7.1
82.5°	4.7	4.7	3.9	3.9	3.9
85°	2.4	2.4	2.4	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)