

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: P247280

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247280  
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: LSR8B100D010 EC8B1009727 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: 7465.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

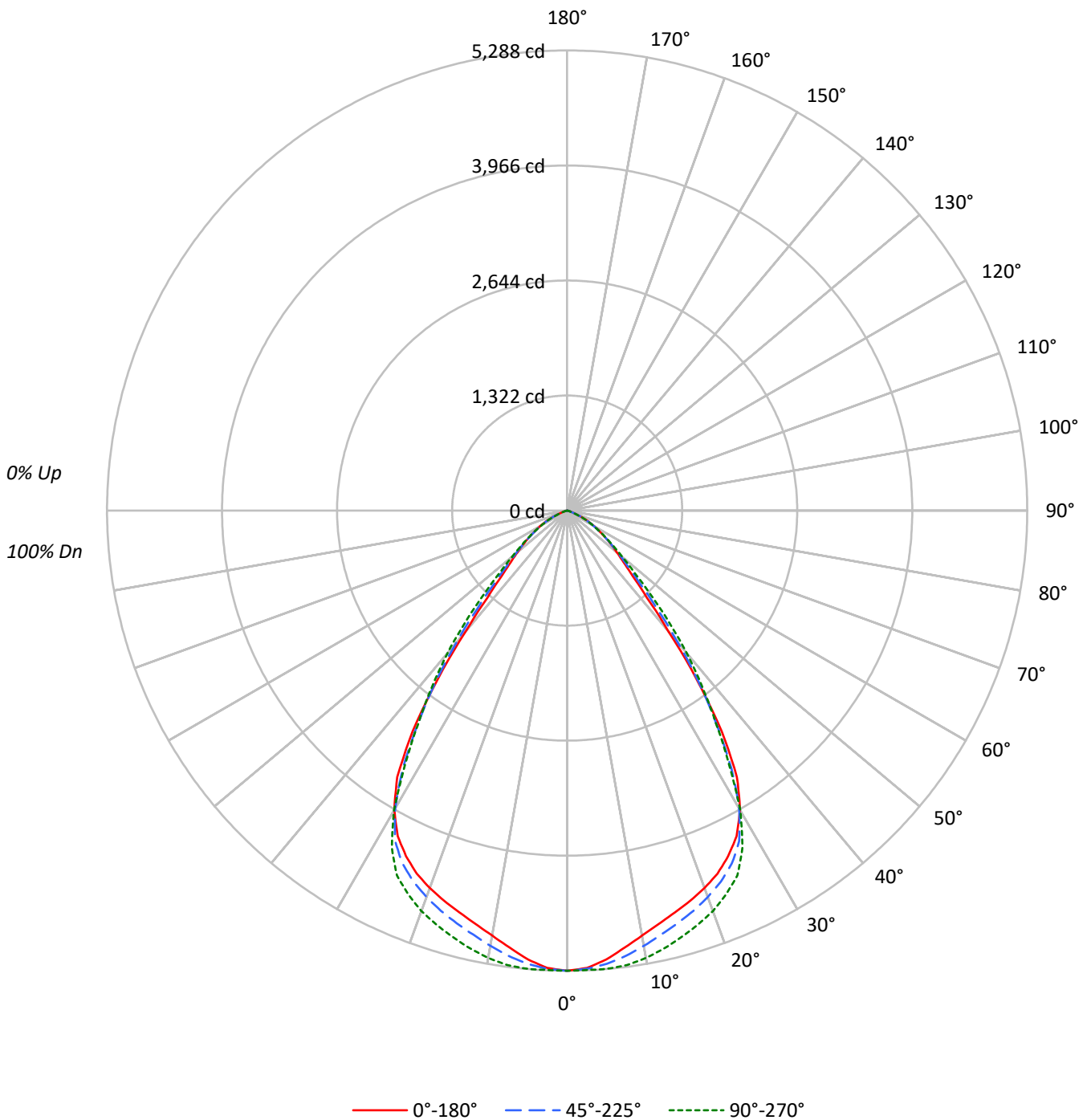
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	494.5	6.6
10°-20°	1388.6	18.6
20°-30°	2045.2	27.4
30°-40°	1860.1	24.9
40°-50°	962.9	12.9
50°-60°	482.4	6.5
60°-70°	196.5	2.6
70°-80°	31.3	0.4
80°-90°	3.3	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°	3928.3	52.6
0°-40°	5788.5	77.5
0°-60°	7233.8	96.9
0°-90°	7465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5288	5288	5288	5288	5288	
5°	5178	5191	5227	5267	5285	487
15°	4781	4814	4908	5021	5075	1351
25°	4380	4410	4477	4580	4628	2006
35°	3096	3077	2987	2962	2980	1867
45°	1061	1098	1180	1271	1328	874
55°	525	523	523	533	542	477
65°	203	202	194	192	189	204
75°	27	26	24	23	23	34
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5288.0	5288.0	5288.0	5288.0	5288.0
2.5°	5260.0	5262.7	5270.0	5278.1	5284.4
5°	5177.7	5191.2	5227.4	5267.2	5285.3
7.5°	5065.5	5095.3	5161.4	5235.6	5268.1
10°	4958.7	4993.1	5079.0	5178.6	5220.2
12.5°	4864.6	4898.0	4991.3	5102.6	5154.1
15°	4781.3	4813.9	4908.0	5021.1	5075.4
17.5°	4702.6	4732.5	4822.0	4935.1	4990.3
20°	4614.8	4641.1	4726.1	4835.6	4897.1
22.5°	4515.3	4535.2	4614.8	4718.9	4773.2
25°	4380.5	4410.3	4477.3	4579.5	4627.5
27.5°	4215.8	4234.8	4280.9	4343.4	4363.3
30°	3971.5	3970.6	3955.2	3955.2	3980.5
32.5°	3632.1	3588.7	3515.4	3471.1	3467.5
35°	3096.5	3076.6	2987.0	2961.6	2979.7
37.5°	2443.1	2456.7	2479.3	2515.5	2548.1
40°	1814.3	1848.6	1976.2	2090.2	2140.0
42.5°	1353.7	1398.0	1528.3	1653.2	1713.8
45°	1061.4	1098.5	1179.9	1271.3	1328.3
47.5°	877.7	896.7	940.2	1001.7	1030.6
50°	742.9	751.9	771.9	803.5	826.1
52.5°	630.7	627.1	637.9	658.7	666.9
55°	524.8	523.0	523.0	533.0	542.0
57.5°	435.2	432.5	427.1	431.6	434.3
60°	356.5	353.8	349.3	348.4	347.5
62.5°	286.8	282.3	273.3	271.5	271.5
65°	202.7	201.8	194.5	191.8	189.1
67.5°	125.8	122.2	115.8	110.4	109.5
70°	75.1	74.2	68.8	65.2	65.2
72.5°	45.2	43.4	40.7	38.9	38.0
75°	27.1	26.2	24.4	22.6	22.6
77.5°	16.3	15.4	14.5	13.6	13.6
80°	9.0	9.0	8.1	8.1	8.1
82.5°	5.4	5.4	4.5	4.5	4.5
85°	2.7	2.7	2.7	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)