

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: P247712

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100927 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8811.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

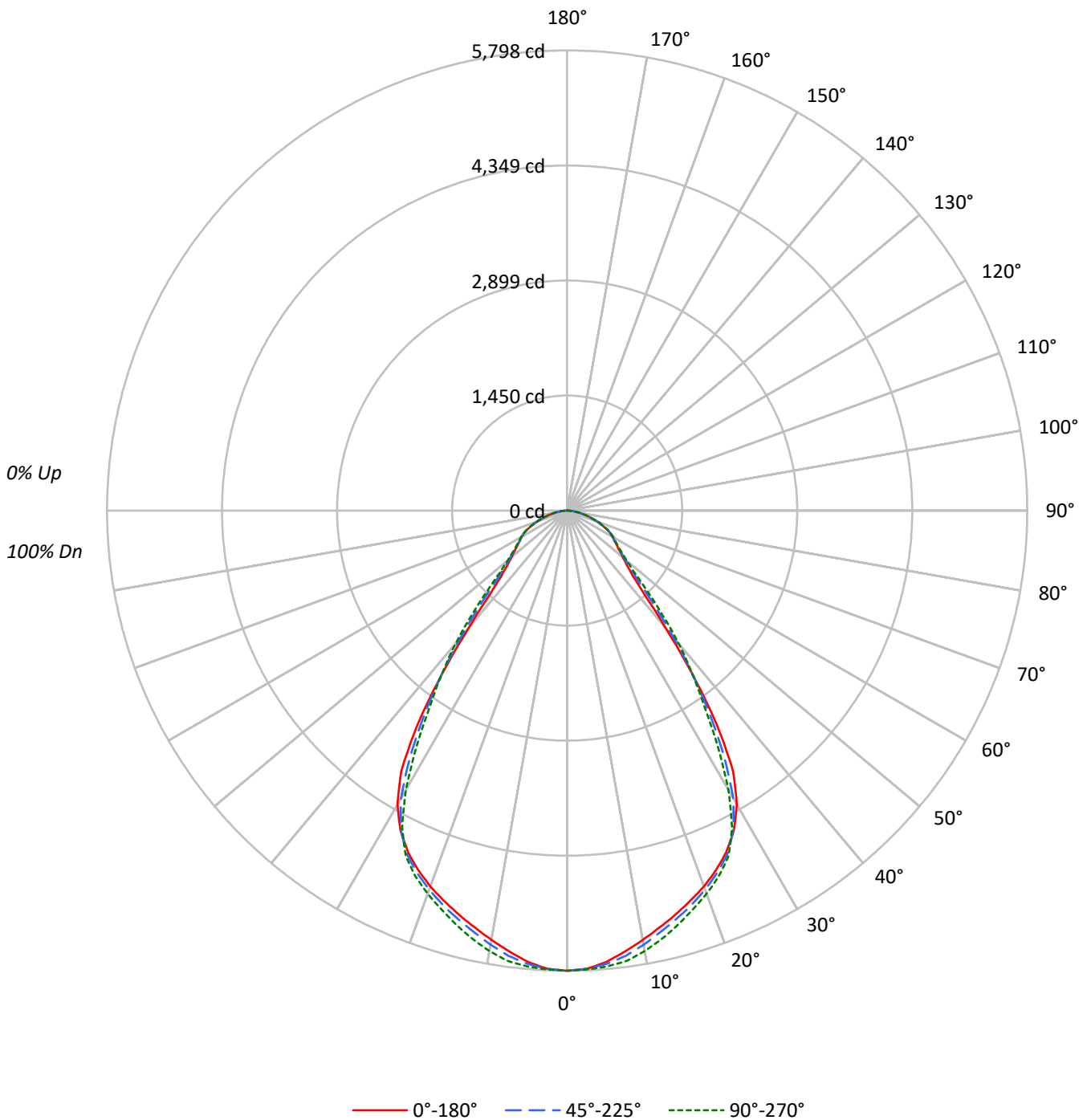
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37			

**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°	541.8	6.1
10°-20°	1503.2	17.1
20°-30°	2173.2	24.7
30°-40°	1944.8	22.1
40°-50°	1052.5	11.9
50°-60°	701.5	8.0
60°-70°	537.2	6.1
70°-80°	284.7	3.2
80°-90°	72.0	0.8
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°	4218.2	47.9
0°-40°	6163.0	69.9
0°-60°	7917.0	89.9
0°-90°	8811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5798	5798	5798	5798	5798	
5°	5706	5709	5733	5756	5766	538
15°	5270	5280	5326	5378	5402	1487
25°	4746	4757	4775	4798	4807	2171
35°	3283	3249	3135	3045	3015	1987
45°	1181	1215	1292	1372	1402	972
55°	763	766	774	782	785	691
65°	544	546	550	554	554	533
75°	264	264	267	268	268	283
85°	61	61	61	62	61	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5798.2	5798.2	5798.2	5798.2	5798.2
2.5°	5778.9	5776.9	5777.9	5784.0	5787.1
5°	5705.7	5708.7	5733.1	5755.5	5765.7
7.5°	5602.8	5616.0	5657.7	5701.5	5724.0
10°	5492.9	5506.1	5553.9	5616.0	5635.3
12.5°	5379.9	5396.2	5438.9	5502.0	5525.4
15°	5270.0	5280.1	5326.0	5377.8	5402.2
17.5°	5157.0	5167.1	5208.9	5249.6	5268.9
20°	5038.9	5050.0	5081.6	5116.3	5137.7
22.5°	4903.4	4914.7	4941.1	4971.7	4991.1
25°	4745.7	4756.8	4775.2	4797.6	4806.8
27.5°	4546.1	4553.3	4536.0	4517.7	4501.3
30°	4275.4	4253.0	4183.8	4095.2	4060.6
32.5°	3890.6	3818.4	3684.9	3577.0	3537.3
35°	3282.9	3249.3	3135.3	3044.7	3015.2
37.5°	2574.5	2596.8	2588.6	2582.5	2588.6
40°	1919.8	1971.8	2083.7	2160.1	2184.5
42.5°	1453.6	1503.6	1629.8	1735.6	1772.2
45°	1180.8	1215.4	1291.8	1372.2	1401.8
47.5°	1019.0	1038.3	1077.0	1119.7	1134.0
50°	915.2	923.3	942.6	967.0	975.2
52.5°	832.7	836.8	847.9	861.2	863.2
55°	763.4	766.5	773.7	781.8	784.8
57.5°	705.5	708.5	710.6	715.6	717.6
60°	659.6	659.6	663.8	667.8	669.8
62.5°	609.8	609.8	613.8	617.8	617.8
65°	543.6	545.6	549.7	553.7	553.7
67.5°	471.3	472.3	475.4	479.5	478.5
70°	399.0	399.0	402.1	404.1	405.1
72.5°	329.8	328.8	333.9	334.9	331.9
75°	263.7	263.7	266.7	267.8	267.8
77.5°	205.6	204.6	204.6	205.6	206.7
80°	150.6	151.6	150.6	152.7	154.7
82.5°	104.8	103.8	103.8	103.8	102.8
85°	61.1	61.1	61.1	62.1	61.1
87.5°	24.4	24.4	23.4	23.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)