

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: P247714

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247714  
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: LSR8B80D010 EC8B80930 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7148.6 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

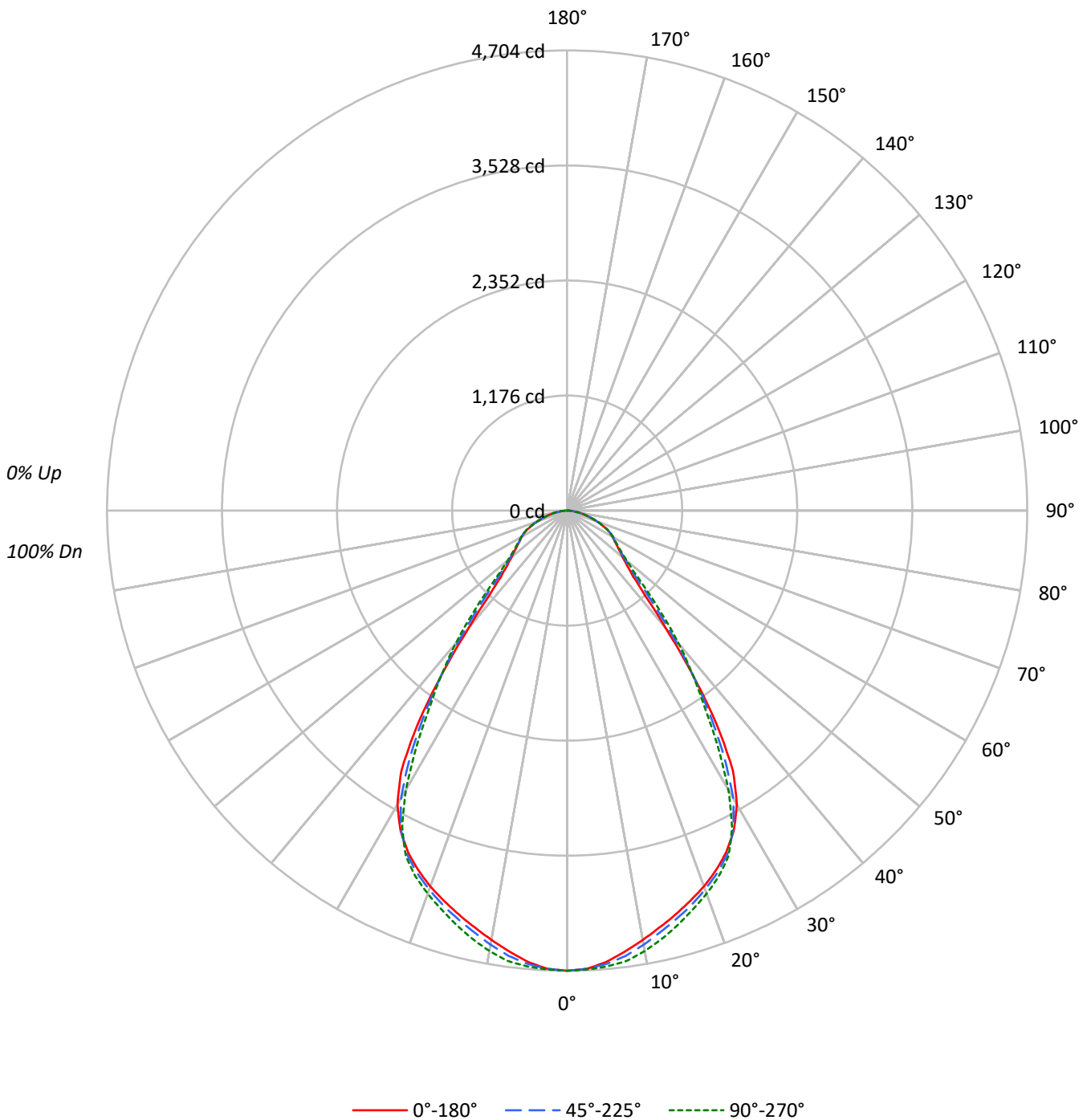
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	439.6	6.1
10°-20°	1219.6	17.1
20°-30°	1763.2	24.7
30°-40°	1577.9	22.1
40°-50°	853.9	11.9
50°-60°	569.1	8.0
60°-70°	435.9	6.1
70°-80°	231.0	3.2
80°-90°	58.4	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°	3422.3	47.9
0°-40°	5000.2	69.9
0°-60°	6423.3	89.9
0°-90°	7148.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7148.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4704	4704	4704	4704	4704	
5°	4629	4632	4652	4670	4678	436
15°	4276	4284	4321	4363	4383	1206
25°	3850	3859	3874	3892	3900	1762
35°	2664	2636	2544	2470	2446	1612
45°	958	986	1048	1113	1137	788
55°	620	622	628	634	637	560
65°	441	443	446	449	449	432
75°	214	214	216	217	217	230
85°	50	50	50	50	50	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4704.3	4704.3	4704.3	4704.3	4704.3
2.5°	4688.6	4686.9	4687.8	4692.7	4695.2
5°	4629.2	4631.6	4651.5	4669.6	4677.8
7.5°	4545.8	4556.4	4590.3	4625.8	4644.0
10°	4456.5	4467.3	4506.1	4556.4	4572.1
12.5°	4364.8	4378.1	4412.7	4463.9	4483.0
15°	4275.6	4283.9	4321.1	4363.2	4383.0
17.5°	4184.0	4192.2	4226.1	4259.1	4274.8
20°	4088.2	4097.3	4122.8	4151.0	4168.3
22.5°	3978.3	3987.4	4008.9	4033.7	4049.4
25°	3850.3	3859.4	3874.3	3892.4	3899.8
27.5°	3688.4	3694.3	3680.1	3665.3	3652.1
30°	3468.7	3450.6	3394.4	3322.5	3294.5
32.5°	3156.5	3097.9	2989.7	2902.2	2870.0
35°	2663.5	2636.3	2543.8	2470.2	2446.2
37.5°	2088.6	2106.8	2100.2	2095.3	2100.2
40°	1557.6	1599.8	1690.6	1752.6	1772.4
42.5°	1179.4	1219.9	1322.2	1408.2	1437.9
45°	958.0	986.1	1048.0	1113.3	1137.3
47.5°	826.7	842.4	873.8	908.5	920.0
50°	742.4	749.1	764.7	784.6	791.2
52.5°	675.6	678.9	688.0	698.7	700.4
55°	619.5	621.9	627.6	634.3	636.7
57.5°	572.4	574.8	576.4	580.6	582.2
60°	535.2	535.2	538.5	541.8	543.5
62.5°	494.7	494.7	498.1	501.3	501.3
65°	441.0	442.7	445.9	449.3	449.3
67.5°	382.4	383.3	385.7	389.0	388.2
70°	323.7	323.7	326.2	327.9	328.7
72.5°	267.6	266.8	270.9	271.7	269.3
75°	213.9	213.9	216.4	217.2	217.2
77.5°	166.8	166.0	166.0	166.8	167.7
80°	122.2	123.1	122.2	123.9	125.6
82.5°	85.1	84.2	84.2	84.2	83.4
85°	49.5	49.5	49.5	50.3	49.5
87.5°	19.8	19.8	18.9	18.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)