

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 EC8B809730 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 EC8B809730 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: 6377.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

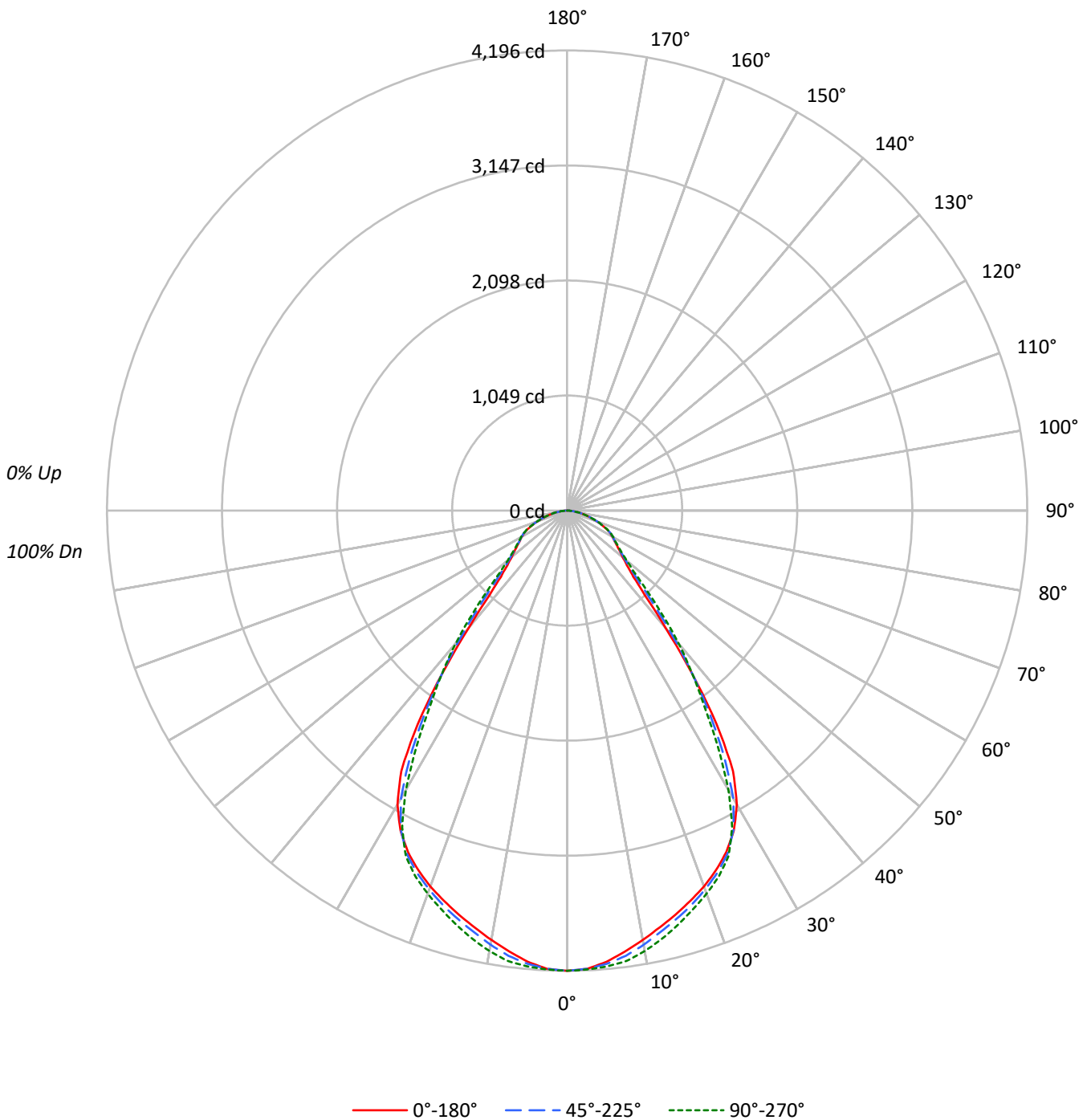
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	392.1	6.1
10°-20°	1088.0	17.1
20°-30°	1572.8	24.7
30°-40°	1407.6	22.1
40°-50°	761.7	11.9
50°-60°	507.7	8.0
60°-70°	388.8	6.1
70°-80°	206.1	3.2
80°-90°	52.1	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°	3052.9	47.9
0°-40°	4460.5	69.9
0°-60°	5730.0	89.9
0°-90°	6377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4196	4196	4196	4196	4196	
5°	4130	4132	4149	4166	4173	389
15°	3814	3822	3855	3892	3910	1076
25°	3435	3443	3456	3472	3479	1572
35°	2376	2352	2269	2204	2182	1438
45°	855	880	935	993	1014	703
55°	553	555	560	566	568	500
65°	393	395	398	401	401	386
75°	191	191	193	194	194	205
85°	44	44	44	45	44	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4196.5	4196.5	4196.5	4196.5	4196.5
2.5°	4182.5	4181.0	4181.8	4186.2	4188.4
5°	4129.5	4131.7	4149.4	4165.6	4172.9
7.5°	4055.1	4064.6	4094.8	4126.5	4142.7
10°	3975.5	3985.1	4019.7	4064.6	4078.6
12.5°	3893.7	3905.5	3936.4	3982.1	3999.1
15°	3814.1	3821.5	3854.7	3892.2	3909.9
17.5°	3732.4	3739.7	3769.9	3799.4	3813.4
20°	3646.9	3655.0	3677.8	3702.9	3718.4
22.5°	3548.9	3557.0	3576.2	3598.3	3612.3
25°	3434.7	3442.8	3456.1	3472.3	3478.9
27.5°	3290.3	3295.5	3282.9	3269.7	3257.9
30°	3094.3	3078.1	3028.0	2963.9	2938.9
32.5°	2815.8	2763.5	2667.0	2588.9	2560.2
35°	2376.0	2351.7	2269.2	2203.6	2182.2
37.5°	1863.2	1879.4	1873.5	1869.1	1873.5
40°	1389.5	1427.1	1508.1	1563.4	1581.1
42.5°	1052.1	1088.2	1179.5	1256.2	1282.7
45°	854.6	879.7	934.9	993.1	1014.5
47.5°	737.5	751.5	779.5	810.4	820.7
50°	662.3	668.2	682.2	699.9	705.8
52.5°	602.7	605.6	613.7	623.3	624.8
55°	552.6	554.8	559.9	565.8	568.0
57.5°	510.6	512.8	514.2	517.9	519.4
60°	477.4	477.4	480.4	483.3	484.8
62.5°	441.3	441.3	444.3	447.2	447.2
65°	393.4	394.9	397.8	400.8	400.8
67.5°	341.1	341.9	344.1	347.0	346.3
70°	288.8	288.8	291.0	292.5	293.2
72.5°	238.7	238.0	241.7	242.4	240.2
75°	190.8	190.8	193.0	193.8	193.8
77.5°	148.8	148.1	148.1	148.8	149.6
80°	109.0	109.8	109.0	110.5	112.0
82.5°	75.9	75.1	75.1	75.1	74.4
85°	44.2	44.2	44.2	44.9	44.2
87.5°	17.7	17.7	16.9	16.9	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)