

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: P247282

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247282  
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 EC8B80930 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6812.3 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

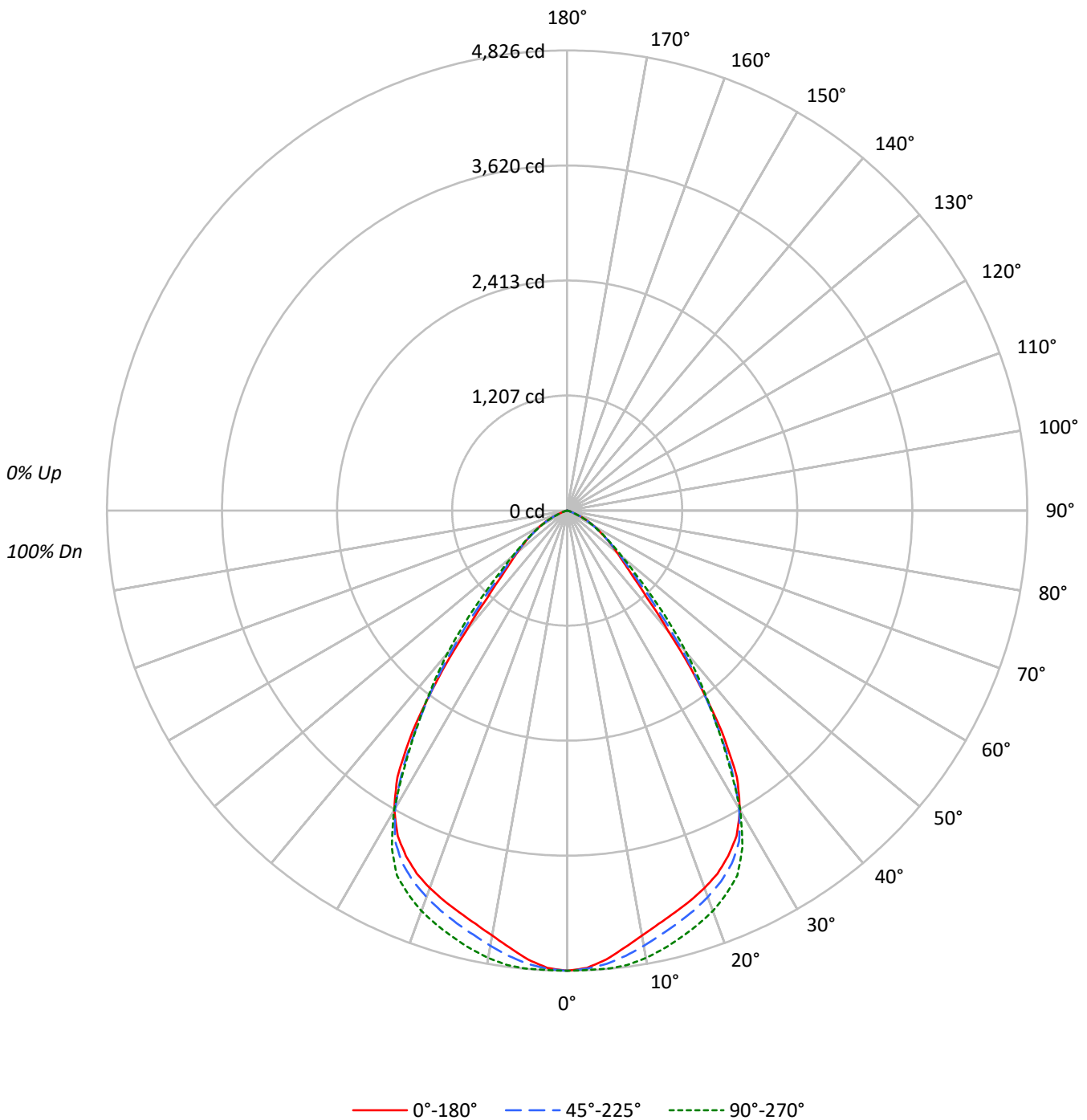
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	451.3	6.6
10°-20°	1267.2	18.6
20°-30°	1866.3	27.4
30°-40°	1697.5	24.9
40°-50°	878.7	12.9
50°-60°	440.2	6.5
60°-70°	179.3	2.6
70°-80°	28.6	0.4
80°-90°	3.1	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°	3584.9	52.6
0°-40°	5282.4	77.5
0°-60°	6601.4	96.9
0°-90°	6812.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6812.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4826	4826	4826	4826	4826	
5°	4725	4737	4770	4807	4823	444
15°	4363	4393	4479	4582	4632	1233
25°	3998	4025	4086	4179	4223	1830
35°	2826	2808	2726	2703	2719	1704
45°	969	1002	1077	1160	1212	798
55°	479	477	477	486	495	435
65°	185	184	178	175	173	187
75°	25	24	22	21	21	31
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°	4825.7	4825.7	4825.7	4825.7	4825.7
2.5°	4800.1	4802.6	4809.2	4816.6	4822.4
5°	4725.0	4737.3	4770.4	4806.7	4823.2
7.5°	4622.6	4649.8	4710.1	4777.8	4807.5
10°	4525.1	4556.5	4635.0	4725.8	4763.8
12.5°	4439.3	4469.8	4554.8	4656.4	4703.5
15°	4363.3	4393.0	4478.8	4582.1	4631.6
17.5°	4291.4	4318.7	4400.5	4503.6	4554.1
20°	4211.4	4235.3	4312.9	4412.8	4469.0
22.5°	4120.5	4138.6	4211.4	4306.3	4355.9
25°	3997.5	4024.7	4085.8	4179.1	4222.9
27.5°	3847.2	3864.5	3906.7	3963.6	3981.8
30°	3624.2	3623.4	3609.4	3609.4	3632.5
32.5°	3314.6	3274.9	3208.1	3167.6	3164.2
35°	2825.7	2807.5	2725.8	2702.7	2719.2
37.5°	2229.6	2241.9	2262.5	2295.6	2325.3
40°	1655.6	1687.0	1803.5	1907.5	1952.9
42.5°	1235.3	1275.8	1394.7	1508.6	1564.0
45°	968.7	1002.5	1076.8	1160.2	1212.2
47.5°	801.0	818.3	858.0	914.1	940.5
50°	678.0	686.2	704.3	733.2	753.9
52.5°	575.5	572.3	582.1	601.2	608.6
55°	478.9	477.3	477.3	486.4	494.6
57.5°	397.2	394.7	389.8	393.9	396.4
60°	325.3	322.8	318.7	317.9	317.1
62.5°	261.8	257.6	249.4	247.7	247.7
65°	185.0	184.2	177.6	175.1	172.6
67.5°	114.8	111.4	105.7	100.8	99.9
70°	68.5	67.7	62.8	59.4	59.4
72.5°	41.3	39.7	37.1	35.5	34.6
75°	24.8	24.0	22.3	20.6	20.6
77.5°	14.9	14.0	13.2	12.3	12.3
80°	8.3	8.3	7.4	7.4	7.4
82.5°	4.9	4.9	4.1	4.1	4.1
85°	2.5	2.5	2.5	1.7	1.7
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)