

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: P247284

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247284  
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 EC8B1009730 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: 7898.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 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

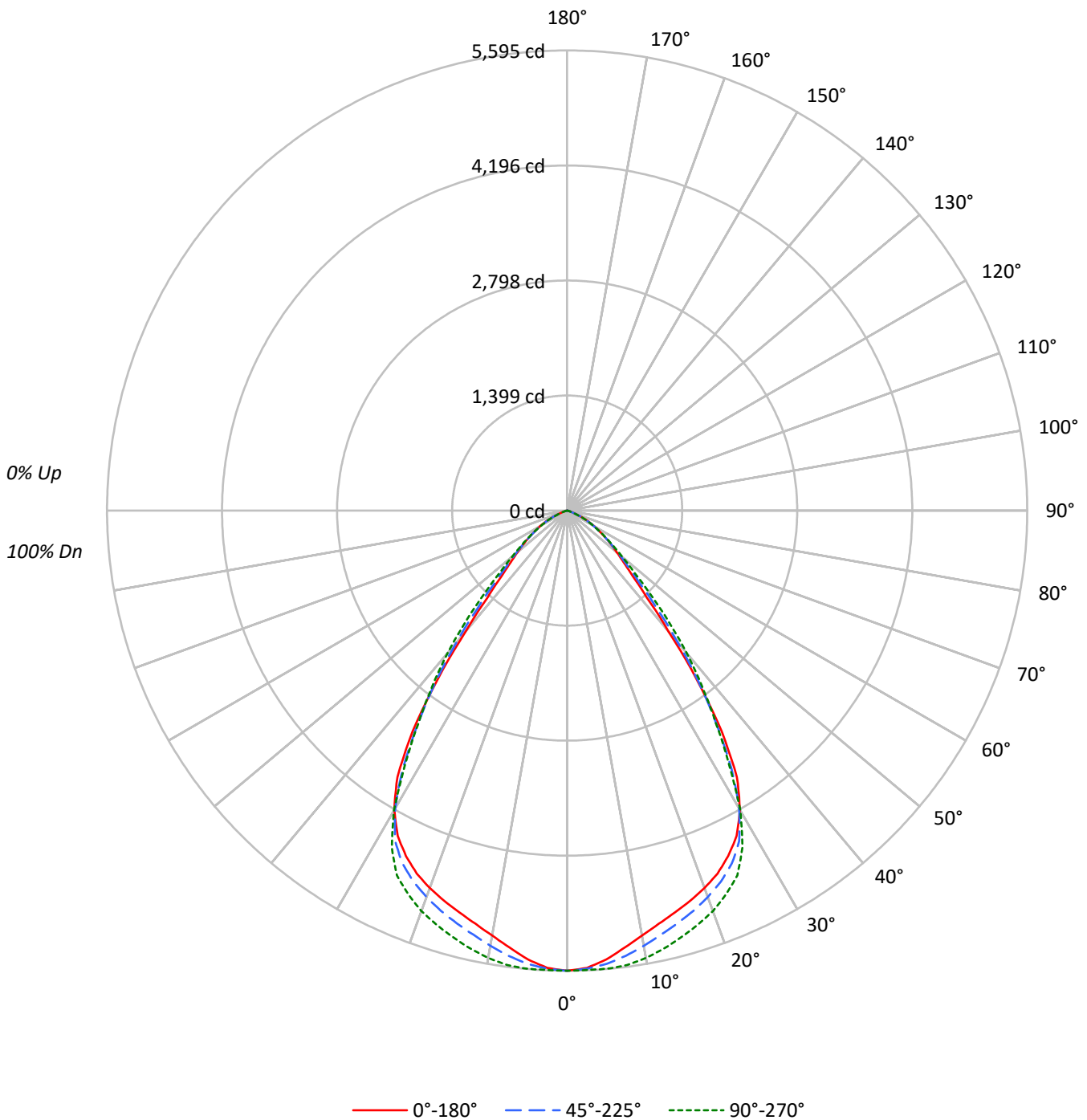
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	523.2	6.6
10°-20°	1469.2	18.6
20°-30°	2163.8	27.4
30°-40°	1968.0	24.9
40°-50°	1018.8	12.9
50°-60°	510.4	6.5
60°-70°	207.9	2.6
70°-80°	33.2	0.4
80°-90°	3.6	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°	4156.2	52.6
0°-40°	6124.2	77.5
0°-60°	7653.4	96.9
0°-90°	7898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5595	5595	5595	5595	5595	
5°	5478	5492	5531	5573	5592	515
15°	5059	5093	5193	5312	5370	1430
25°	4635	4666	4737	4845	4896	2122
35°	3276	3255	3160	3133	3153	1976
45°	1123	1162	1248	1345	1405	925
55°	555	553	553	564	574	504
65°	214	214	206	203	200	216
75°	29	28	26	24	24	36
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°	5594.8	5594.8	5594.8	5594.8	5594.8
2.5°	5565.1	5568.0	5575.6	5584.2	5590.9
5°	5478.0	5492.3	5530.6	5572.8	5591.9
7.5°	5359.3	5390.9	5460.7	5539.2	5573.7
10°	5246.3	5282.7	5373.6	5478.9	5523.0
12.5°	5146.7	5182.2	5280.8	5398.5	5453.1
15°	5058.7	5093.1	5192.7	5312.4	5369.8
17.5°	4975.4	5007.0	5101.7	5221.4	5279.8
20°	4882.5	4910.3	5000.3	5116.1	5181.2
22.5°	4777.2	4798.3	4882.5	4992.6	5050.0
25°	4634.6	4666.1	4737.0	4845.2	4895.9
27.5°	4460.3	4480.4	4529.2	4595.3	4616.4
30°	4201.8	4200.9	4184.6	4184.6	4211.4
32.5°	3842.8	3796.9	3719.3	3672.4	3668.6
35°	3276.1	3255.0	3160.2	3133.4	3152.6
37.5°	2584.9	2599.2	2623.1	2661.4	2695.9
40°	1919.5	1955.9	2090.9	2211.5	2264.1
42.5°	1432.2	1479.1	1617.0	1749.1	1813.2
45°	1123.0	1162.2	1248.4	1345.1	1405.4
47.5°	928.6	948.7	994.7	1059.8	1090.4
50°	786.0	795.6	816.6	850.1	874.1
52.5°	667.3	663.4	674.9	697.0	705.6
55°	555.3	553.4	553.4	563.9	573.5
57.5°	460.5	457.6	451.9	456.7	459.5
60°	377.2	374.3	369.5	368.6	367.6
62.5°	303.5	298.7	289.1	287.2	287.2
65°	214.4	213.5	205.8	203.0	200.1
67.5°	133.1	129.2	122.5	116.8	115.8
70°	79.5	78.5	72.8	68.9	68.9
72.5°	47.9	46.0	43.1	41.2	40.2
75°	28.7	27.8	25.8	23.9	23.9
77.5°	17.2	16.3	15.3	14.4	14.4
80°	9.6	9.6	8.6	8.6	8.6
82.5°	5.7	5.7	4.8	4.8	4.8
85°	2.9	2.9	2.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)