

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: P247235

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909730 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7598.0 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

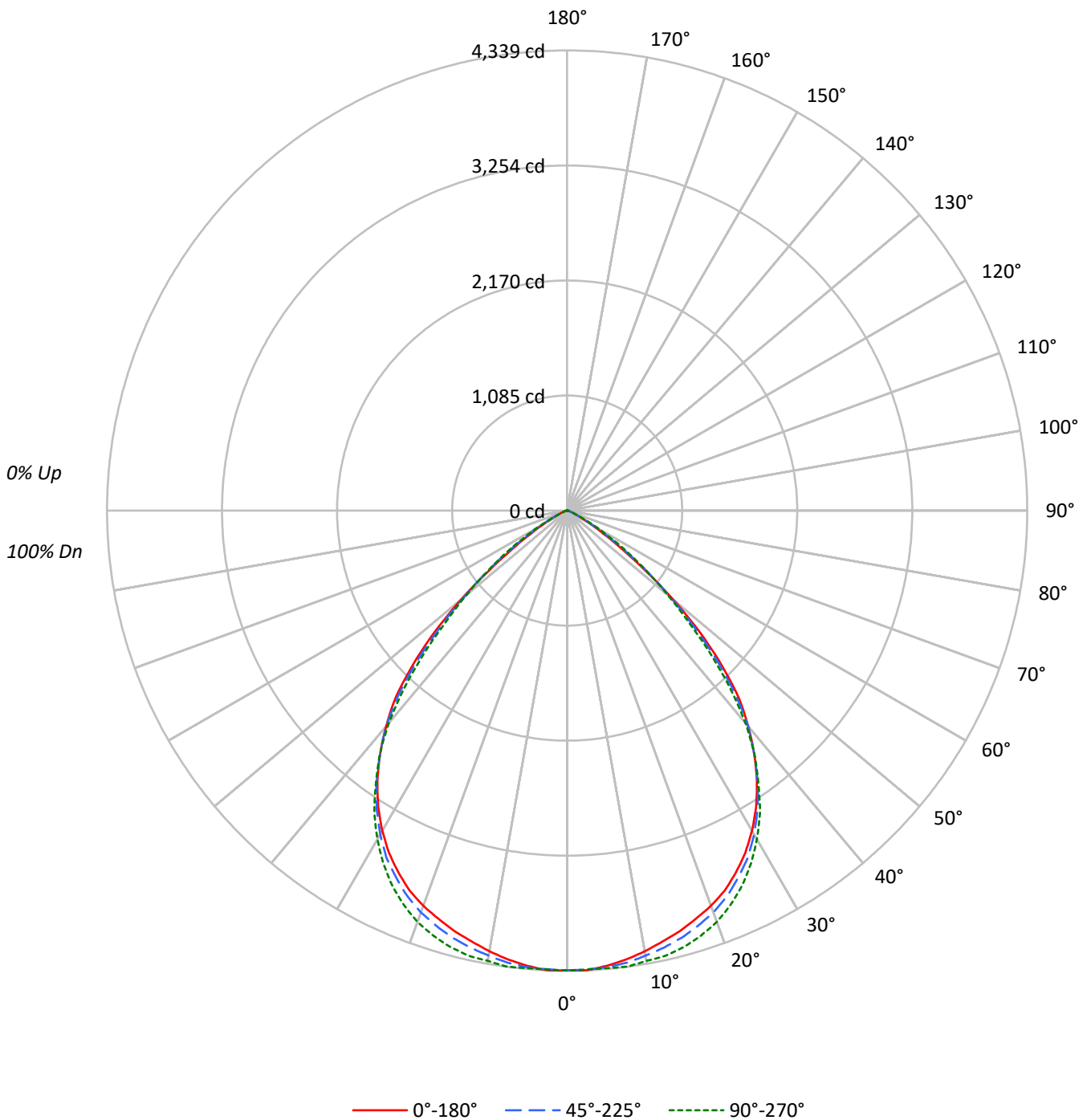
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

**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°	410.8	5.4
10°-20°	1177.9	15.5
20°-30°	1757.6	23.1
30°-40°	1946.5	25.6
40°-50°	1518.0	20.0
50°-60°	636.3	8.4
60°-70°	127.4	1.7
70°-80°	20.3	0.3
80°-90°	3.2	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°	3346.3	44.0
0°-40°	5292.8	69.7
0°-60°	7447.1	98.0
0°-90°	7598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4336	4336	4336	4336	4336	
5°	4309	4312	4321	4333	4330	408
15°	4105	4124	4170	4232	4260	1158
25°	3765	3780	3818	3876	3902	1730
35°	3119	3114	3133	3148	3145	1938
45°	2062	2053	2000	1938	1913	1560
55°	621	646	687	714	728	605
65°	97	97	98	105	102	117
75°	28	26	26	20	18	23
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4336.0	4336.0	4336.0	4336.0	4336.0
2.5°	4339.3	4331.0	4329.4	4334.4	4331.0
5°	4308.6	4312.0	4321.1	4332.7	4330.2
7.5°	4268.8	4274.6	4299.5	4329.4	4336.8
10°	4219.0	4231.5	4261.3	4295.4	4311.1
12.5°	4161.0	4177.5	4220.7	4269.6	4298.7
15°	4105.4	4123.6	4170.1	4231.5	4259.7
17.5°	4035.7	4059.7	4105.4	4171.7	4200.8
20°	3966.0	3987.5	4031.5	4096.2	4128.6
22.5°	3879.7	3895.4	3936.9	3991.7	4024.9
25°	3765.2	3780.1	3817.5	3876.4	3902.1
27.5°	3637.4	3654.8	3688.9	3729.5	3752.7
30°	3486.4	3500.5	3524.6	3561.1	3578.5
32.5°	3316.3	3317.1	3341.2	3368.6	3384.4
35°	3118.8	3113.9	3133.0	3147.9	3144.6
37.5°	2900.6	2901.5	2899.8	2901.5	2904.8
40°	2656.7	2645.1	2654.2	2633.5	2618.5
42.5°	2397.8	2386.2	2350.5	2304.9	2280.0
45°	2061.8	2052.7	1999.6	1938.2	1913.3
47.5°	1692.6	1664.4	1621.2	1569.0	1544.9
50°	1301.8	1298.5	1272.8	1260.3	1238.7
52.5°	930.9	930.9	962.5	957.5	956.6
55°	621.4	645.5	687.0	714.4	727.6
57.5°	404.9	427.3	462.1	491.2	504.5
60°	262.2	273.0	297.9	320.3	336.0
62.5°	162.6	171.7	185.0	199.1	204.9
65°	97.1	97.1	97.9	105.4	102.1
67.5°	65.5	68.0	64.7	64.7	73.0
70°	42.3	39.8	39.0	38.2	38.2
72.5°	27.4	23.2	24.9	26.6	23.2
75°	28.2	25.7	25.7	19.9	18.3
77.5°	10.0	10.8	7.5	5.8	5.0
80°	0.8	3.3	3.3	0.8	0.0
82.5°	10.0	9.1	7.5	11.6	7.5
85°	0.8	1.7	0.8	0.0	4.1
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)