

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: P247667

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90930 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7232.7 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

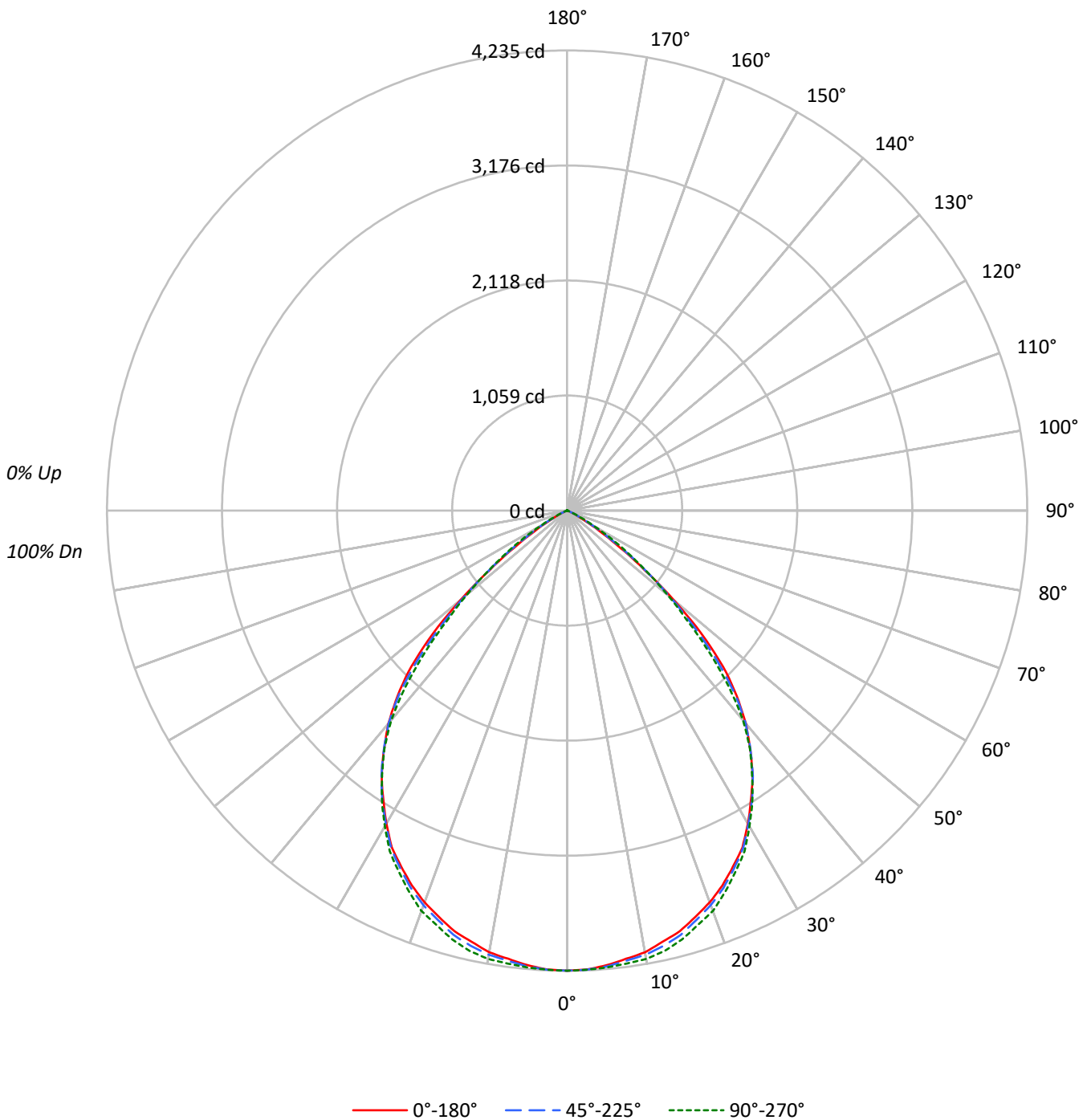
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		51	45	42	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°	399.9	5.5
10°-20°	1138.1	15.7
20°-30°	1671.9	23.1
30°-40°	1851.0	25.6
40°-50°	1475.2	20.4
50°-60°	604.4	8.4
60°-70°	89.0	1.2
70°-80°	1.3	0.0
80°-90°	1.8	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°	3209.9	44.4
0°-40°	5061.0	70.0
0°-60°	7140.6	98.7
0°-90°	7232.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7232.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4235	4235	4235	4235	4235	
5°	4200	4207	4211	4217	4221	398
15°	4008	4011	4042	4080	4086	1128
25°	3614	3611	3634	3655	3667	1662
35°	2976	2972	2980	2976	2968	1849
45°	2030	2011	1947	1874	1858	1523
55°	597	618	649	686	687	574
65°	57	60	70	76	74	75
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4234.9	4234.9	4234.9	4234.9	4234.9
2.5°	4227.4	4228.4	4228.4	4223.7	4229.3
5°	4199.5	4207.0	4210.7	4217.2	4220.9
7.5°	4160.5	4158.6	4178.1	4201.4	4204.2
10°	4127.9	4124.2	4150.3	4180.9	4189.3
12.5°	4063.7	4068.3	4101.9	4133.5	4150.3
15°	4007.9	4010.7	4042.3	4080.4	4086.0
17.5°	3921.4	3929.8	3951.2	3991.2	3998.6
20°	3836.7	3840.5	3864.6	3897.3	3921.4
22.5°	3733.5	3740.0	3758.6	3787.5	3799.5
25°	3614.4	3610.7	3634.1	3655.4	3666.6
27.5°	3493.6	3487.1	3504.7	3525.2	3535.4
30°	3326.1	3324.3	3334.5	3347.5	3355.9
32.5°	3150.3	3154.9	3165.3	3169.0	3171.8
35°	2975.5	2971.8	2980.2	2976.4	2968.1
37.5°	2768.1	2770.9	2770.9	2767.1	2763.4
40°	2556.9	2559.7	2554.1	2533.7	2518.8
42.5°	2309.5	2311.4	2282.6	2237.0	2206.2
45°	2029.6	2011.0	1946.7	1874.2	1857.5
47.5°	1677.0	1645.4	1578.5	1523.6	1504.0
50°	1282.6	1259.4	1237.0	1208.2	1202.6
52.5°	899.4	911.5	919.9	929.2	926.4
55°	597.2	617.6	649.3	686.4	687.4
57.5°	359.1	382.3	422.3	463.2	482.7
60°	211.1	220.4	249.3	279.9	289.2
62.5°	114.5	117.1	130.3	160.9	156.3
65°	56.7	59.5	69.7	76.2	74.4
67.5°	27.9	30.7	32.5	41.8	34.4
70°	6.5	1.9	3.7	4.6	1.9
72.5°	0.0	0.0	1.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	3.7
80°	8.4	5.6	1.9	1.9	2.8
82.5°	2.8	0.9	2.8	0.9	0.0
85°	0.0	0.0	0.0	3.7	0.0
87.5°	4.6	0.9	0.9	2.8	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)