

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: P247619

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909730 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 4588.0 lumens  
Efficiency: N/A  
Efficacy: 53.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

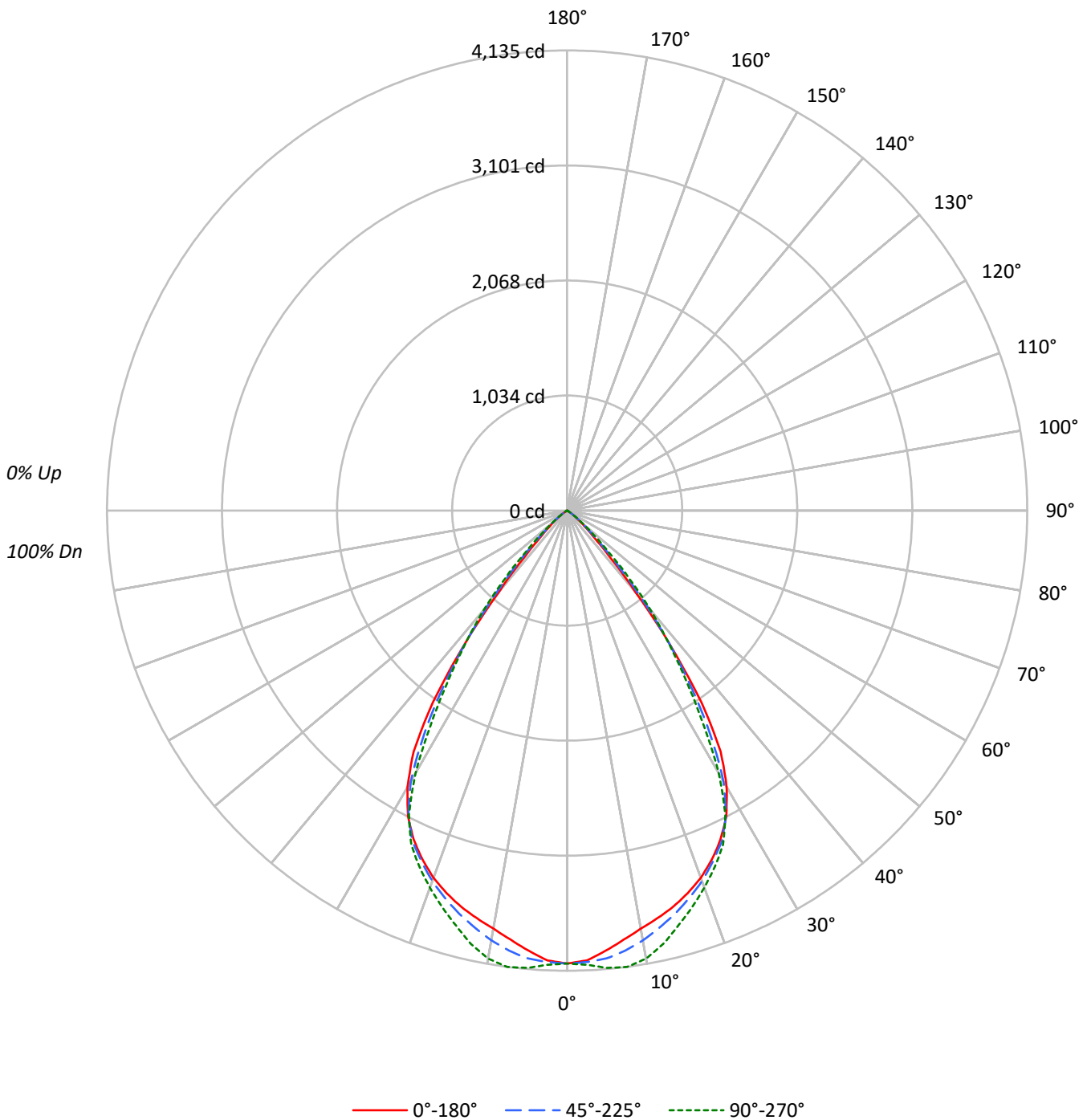
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247619

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247619

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBW0B

**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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

**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°			



TEST NUMBER: P247619

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.5	8.3
10°-20°	1058.6	23.1
20°-30°	1491.6	32.5
30°-40°	1206.8	26.3
40°-50°	383.1	8.3
50°-60°	61.2	1.3
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2932.7	63.9
0°-40°	4139.5	90.2
0°-60°	4583.8	99.9
0°-90°	4588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4070	4070	4070	4070	4070	
5°	3971	3989	4040	4099	4125	374
15°	3684	3699	3750	3821	3860	1038
25°	3261	3267	3285	3303	3314	1489
35°	2102	2044	1958	1888	1860	1246
45°	341	368	439	501	532	318
55°	54	55	58	61	60	56
65°	2	2	2	2	2	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247619

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4069.5	4069.5	4069.5	4069.5	4069.5
2.5°	4046.2	4050.4	4060.3	4079.4	4085.2
5°	3970.7	3989.0	4040.4	4099.3	4125.1
7.5°	3889.4	3913.5	3989.0	4088.5	4135.0
10°	3814.8	3840.5	3921.0	4027.2	4087.7
12.5°	3751.7	3771.6	3837.2	3932.6	3989.0
15°	3684.5	3698.6	3750.0	3821.4	3860.4
17.5°	3604.0	3616.5	3650.5	3706.1	3735.9
20°	3511.1	3514.4	3543.5	3579.1	3604.9
22.5°	3395.8	3399.1	3415.7	3449.7	3467.1
25°	3261.4	3267.2	3284.6	3302.9	3313.6
27.5°	3096.3	3098.8	3090.5	3075.5	3078.9
30°	2867.3	2858.2	2811.7	2747.8	2728.7
32.5°	2567.0	2506.4	2406.0	2316.4	2279.9
35°	2101.5	2044.3	1958.0	1887.5	1860.1
37.5°	1510.0	1514.1	1508.3	1492.6	1495.9
40°	954.9	993.1	1083.5	1142.4	1160.7
42.5°	573.3	614.8	714.3	794.0	819.7
45°	341.0	368.4	438.9	501.1	531.8
47.5°	219.0	232.3	267.1	303.7	321.1
50°	145.2	151.8	165.9	182.5	190.0
52.5°	92.9	95.4	102.0	107.9	113.7
55°	53.9	54.8	58.1	60.6	59.7
57.5°	28.2	28.2	28.2	28.2	28.2
60°	15.8	14.9	14.9	14.9	14.1
62.5°	7.5	7.5	7.5	6.6	6.6
65°	1.7	2.5	2.5	2.5	2.5
67.5°	0.0	0.0	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)