

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: P247567

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909727 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6555.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

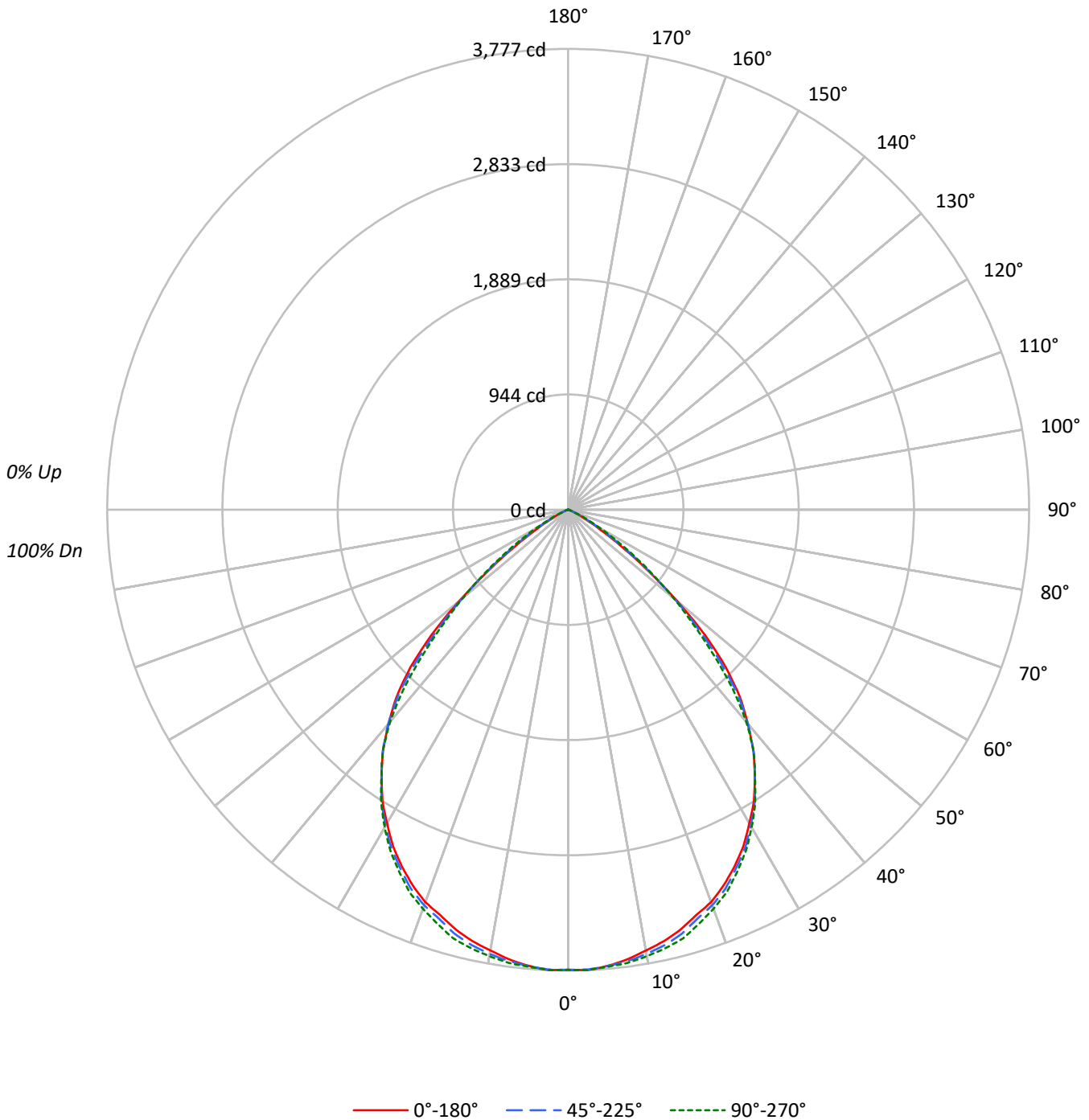
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247567

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBS0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247567

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBS0GPH

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	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39	39	39		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36	36	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°			



TEST NUMBER: P247567

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBS0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	5.4
10°-20°	1013.0	15.5
20°-30°	1493.9	22.8
30°-40°	1662.8	25.4
40°-50°	1338.2	20.4
50°-60°	569.1	8.7
60°-70°	106.7	1.6
70°-80°	12.9	0.2
80°-90°	1.6	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°	2863.7	43.7
0°-40°	4526.5	69.1
0°-60°	6433.8	98.2
0°-90°	6555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3771	3771	3771	3771	3771	
5°	3752	3753	3754	3760	3759	356
15°	3562	3581	3598	3626	3638	1004
25°	3225	3237	3249	3267	3275	1482
35°	2664	2665	2667	2667	2667	1659
45°	1828	1813	1764	1711	1686	1375
55°	565	577	612	636	652	538
65°	71	78	89	95	106	91
75°	7	9	13	12	12	11
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P247567

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3771.0	3771.0	3771.0	3771.0	3771.0
2.5°	3777.2	3779.6	3771.7	3773.3	3775.7
5°	3752.1	3752.9	3753.7	3760.0	3759.2
7.5°	3716.8	3722.3	3731.7	3743.5	3746.6
10°	3669.0	3683.1	3697.2	3711.3	3716.0
12.5°	3621.9	3630.6	3655.7	3669.8	3681.5
15°	3561.5	3581.1	3598.4	3625.9	3637.6
17.5°	3484.7	3498.8	3515.3	3542.7	3559.2
20°	3422.7	3426.6	3450.2	3474.5	3480.0
22.5°	3331.0	3339.6	3363.9	3380.4	3394.5
25°	3225.1	3236.8	3248.6	3267.4	3275.3
27.5°	3109.0	3116.1	3132.5	3145.9	3152.9
30°	2968.6	2984.3	2991.3	2997.6	3007.0
32.5°	2832.1	2836.8	2843.1	2847.0	2851.7
35°	2664.3	2665.1	2666.6	2667.4	2667.4
37.5°	2492.5	2498.0	2496.5	2491.7	2494.1
40°	2289.4	2298.8	2293.3	2279.2	2269.8
42.5°	2084.7	2080.0	2061.2	2018.8	1999.2
45°	1828.2	1813.3	1763.9	1710.6	1685.5
47.5°	1520.8	1487.8	1446.3	1404.7	1388.2
50°	1165.5	1160.8	1142.0	1125.5	1127.1
52.5°	835.3	847.1	851.0	866.7	874.5
55°	564.7	577.3	611.8	636.1	651.8
57.5°	343.5	367.8	404.7	444.7	465.1
60°	217.3	231.4	265.1	291.0	300.4
62.5°	135.7	136.5	152.9	173.3	182.0
65°	70.6	78.4	88.6	94.9	105.9
67.5°	43.9	43.9	43.1	52.5	58.8
70°	29.0	25.1	25.9	31.4	33.7
72.5°	10.2	17.3	15.7	15.7	11.0
75°	7.1	8.6	13.3	12.5	11.8
77.5°	9.4	8.6	6.3	5.5	11.0
80°	3.9	3.1	0.8	4.7	4.7
82.5°	3.9	1.6	4.7	6.3	3.9
85°	0.0	0.0	0.0	0.0	0.0
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)