

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: P247615

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247615
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 EC8B909727 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4337.0 lumens
Efficiency: N/A
Efficacy: 50.4 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

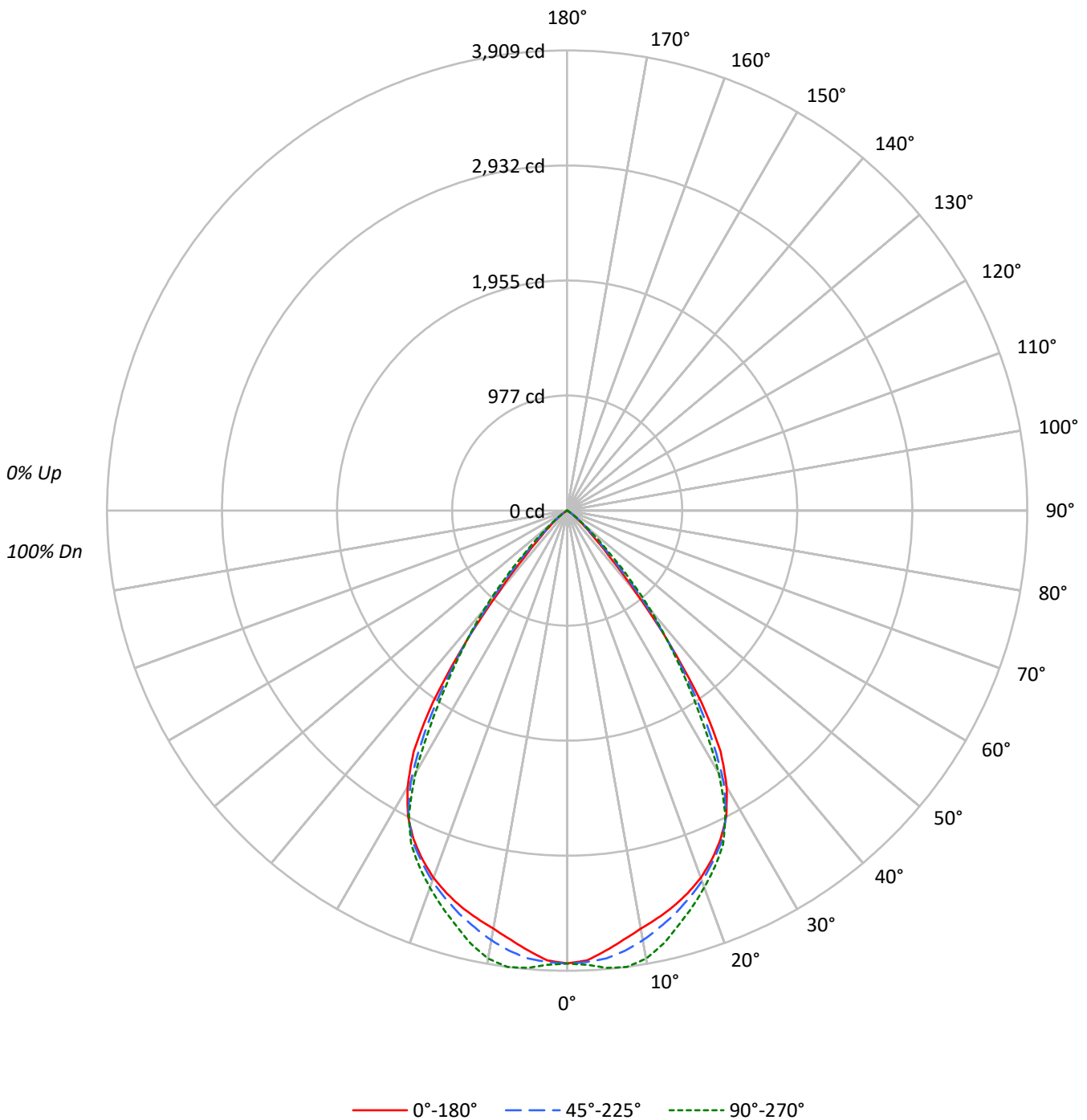
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	8.3
10°-20°	1000.7	23.1
20°-30°	1410.0	32.5
30°-40°	1140.8	26.3
40°-50°	362.1	8.3
50°-60°	57.9	1.3
60°-70°	3.9	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°	2772.3	63.9
0°-40°	3913.0	90.2
0°-60°	4333.1	99.9
0°-90°	4337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3847	3847	3847	3847	3847	
5°	3754	3771	3819	3875	3899	354
15°	3483	3496	3545	3612	3649	981
25°	3083	3088	3105	3122	3132	1408
35°	1987	1932	1851	1784	1758	1178
45°	322	348	415	474	503	300
55°	51	52	55	57	56	53
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	3824.9	3828.8	3838.2	3856.2	3861.7
5°	3753.5	3770.8	3819.4	3875.1	3899.4
7.5°	3676.6	3699.4	3770.8	3864.9	3908.8
10°	3606.1	3630.4	3706.5	3806.8	3864.1
12.5°	3546.5	3565.3	3627.2	3717.4	3770.8
15°	3482.9	3496.3	3544.9	3612.3	3649.2
17.5°	3406.9	3418.6	3450.8	3503.3	3531.6
20°	3319.0	3322.2	3349.6	3383.3	3407.6
22.5°	3210.0	3213.1	3228.8	3261.0	3277.5
25°	3083.0	3088.4	3104.9	3122.2	3132.4
27.5°	2926.9	2929.2	2921.4	2907.3	2910.4
30°	2710.4	2701.8	2657.9	2597.5	2579.5
32.5°	2426.5	2369.3	2274.4	2189.7	2155.2
35°	1986.6	1932.4	1850.9	1784.2	1758.3
37.5°	1427.4	1431.3	1425.8	1410.9	1414.0
40°	902.7	938.8	1024.3	1079.9	1097.2
42.5°	541.9	581.1	675.3	750.5	774.9
45°	322.3	348.2	414.9	473.7	502.7
47.5°	207.0	219.6	252.5	287.0	303.5
50°	137.2	143.5	156.9	172.5	179.6
52.5°	87.8	90.2	96.5	102.0	107.4
55°	51.0	51.8	54.9	57.3	56.5
57.5°	26.7	26.7	26.7	26.7	26.7
60°	14.9	14.1	14.1	14.1	13.3
62.5°	7.1	7.1	7.1	6.3	6.3
65°	1.6	2.4	2.4	2.4	2.4
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)