

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: P247519

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909727 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5953.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

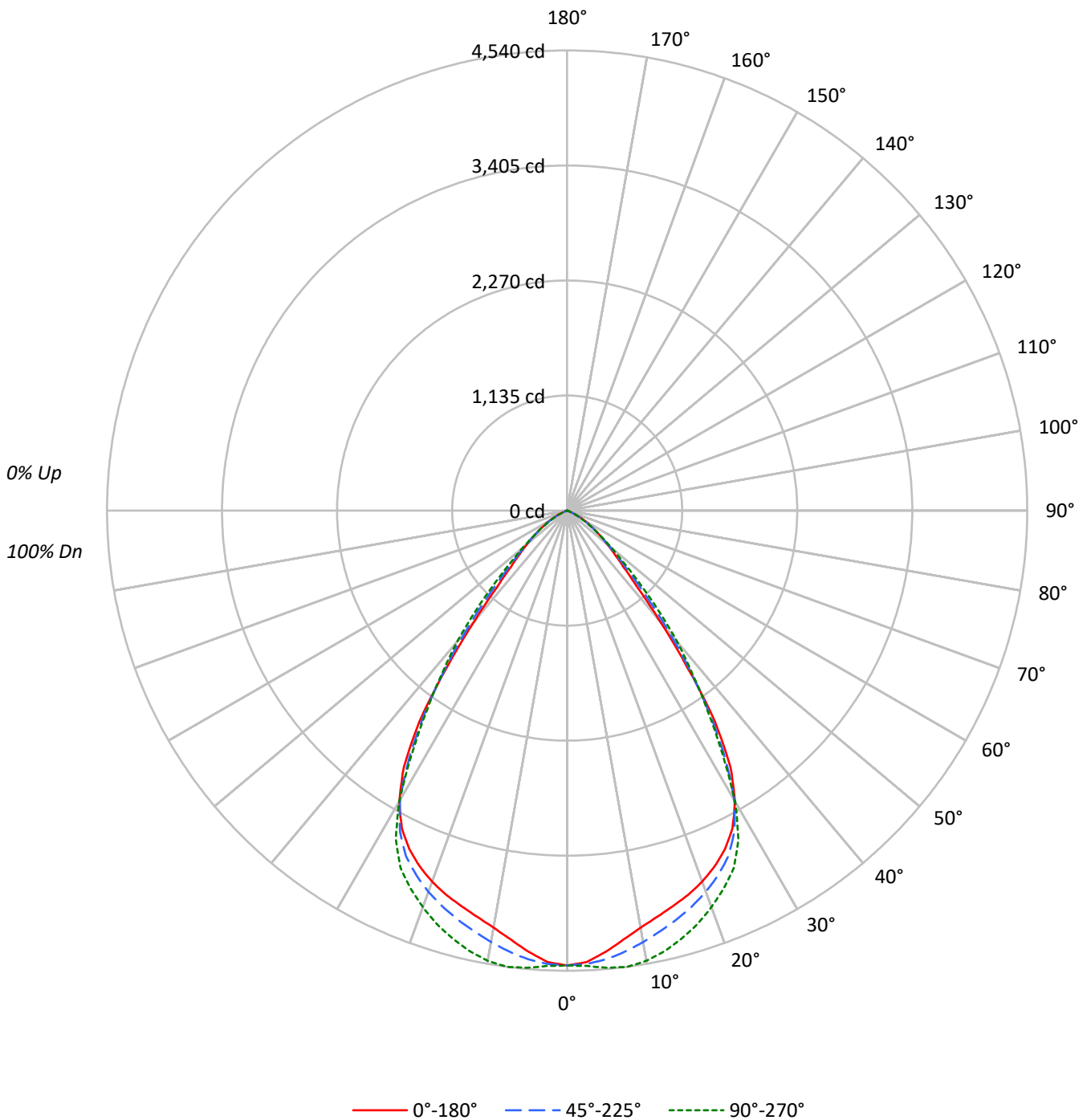
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42

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°	420.8	7.1
10°-20°	1181.6	19.8
20°-30°	1717.4	28.9
30°-40°	1518.8	25.5
40°-50°	722.5	12.1
50°-60°	301.0	5.1
60°-70°	84.1	1.4
70°-80°	6.3	0.1
80°-90°	0.5	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°	3319.9	55.8
0°-40°	4838.6	81.3
0°-60°	5862.1	98.5
0°-90°	5953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4488	4488	4488	4488	4488	
5°	4369	4391	4443	4502	4528	411
15°	4038	4075	4176	4304	4370	1141
25°	3685	3701	3763	3846	3890	1684
35°	2544	2508	2458	2421	2421	1523
45°	780	808	878	960	998	650
55°	334	330	322	322	329	304
65°	84	82	78	74	74	91
75°	6	5	4	4	4	7
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4487.8	4487.8	4487.8	4487.8	4487.8
2.5°	4458.0	4461.9	4476.8	4490.9	4497.2
5°	4369.4	4391.4	4443.1	4501.9	4527.8
7.5°	4268.2	4301.2	4388.2	4491.7	4539.6
10°	4176.5	4218.1	4322.3	4450.2	4510.5
12.5°	4104.3	4142.8	4249.4	4382.7	4451.0
15°	4038.5	4075.3	4176.5	4303.5	4370.2
17.5°	3972.6	4007.9	4094.9	4213.3	4277.6
20°	3895.8	3924.0	4002.4	4106.7	4163.2
22.5°	3800.1	3826.0	3891.8	3984.4	4035.3
25°	3684.8	3701.3	3763.2	3846.4	3889.5
27.5°	3531.9	3535.8	3573.5	3627.6	3659.7
30°	3310.0	3307.6	3297.4	3295.1	3313.1
32.5°	2999.5	2964.9	2905.4	2877.1	2855.2
35°	2543.8	2507.8	2458.4	2420.7	2420.7
37.5°	1944.7	1976.1	1995.7	2019.2	2031.0
40°	1412.3	1458.6	1556.6	1658.5	1686.0
42.5°	1026.5	1069.6	1175.5	1289.2	1322.1
45°	780.2	807.7	878.3	959.8	997.5
47.5°	630.5	638.3	673.6	722.2	740.3
50°	516.8	519.1	530.1	555.2	569.3
52.5°	418.0	416.4	419.5	426.6	432.9
55°	334.1	330.1	322.3	322.3	329.4
57.5°	258.0	252.5	243.9	240.0	237.6
60°	197.6	192.1	182.7	176.4	175.7
62.5°	141.9	137.2	127.8	122.3	120.8
65°	83.9	82.3	77.6	74.5	73.7
67.5°	39.2	37.6	33.7	32.2	31.4
70°	18.8	18.0	16.5	15.7	14.9
72.5°	9.4	9.4	7.8	7.8	7.8
75°	5.5	4.7	3.9	3.9	3.9
77.5°	3.1	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	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)