

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: P247475

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8679.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

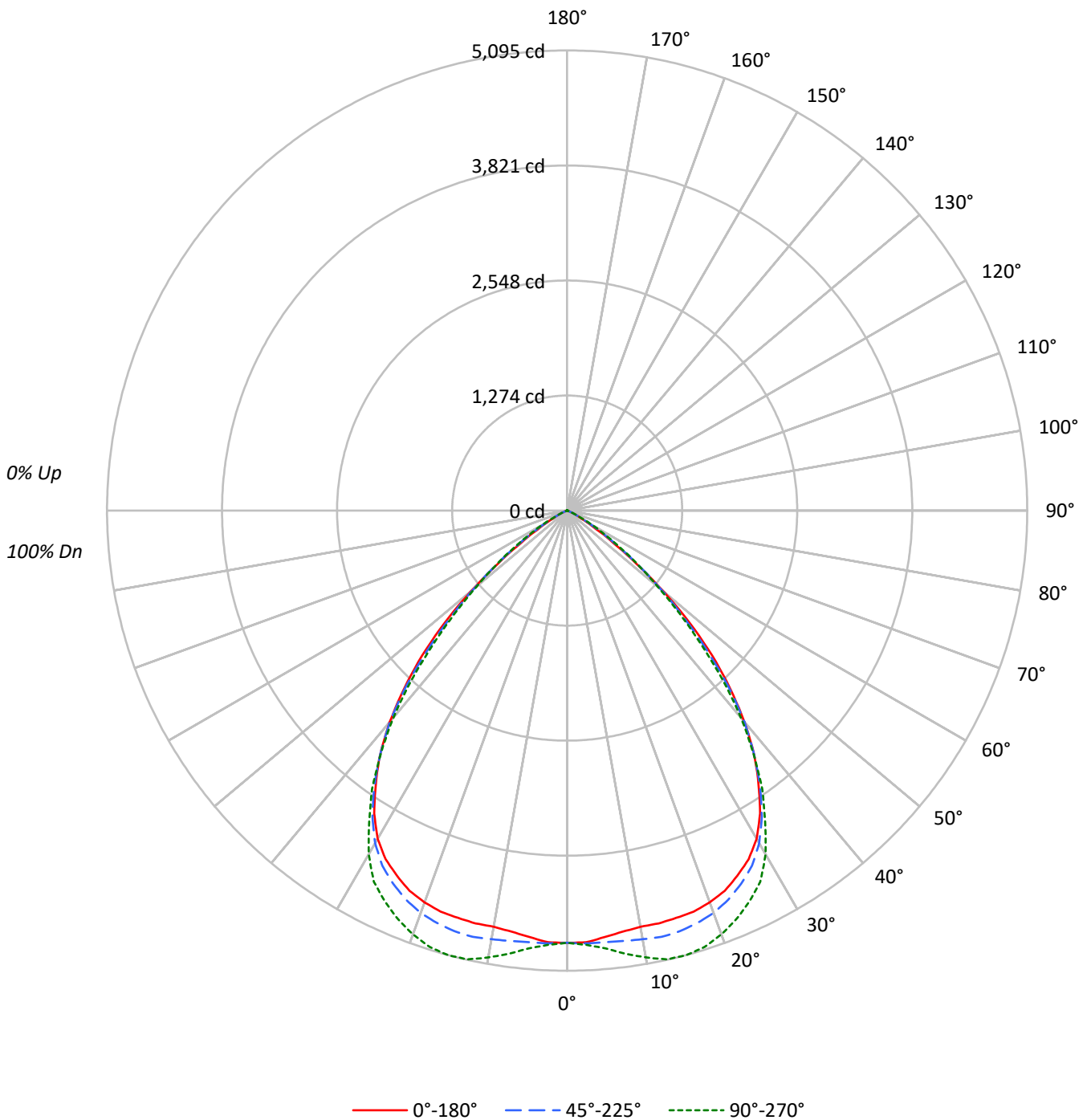
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	459.5	5.3
10°-20°	1369.5	15.8
20°-30°	2107.4	24.3
30°-40°	2308.2	26.6
40°-50°	1678.3	19.3
50°-60°	645.6	7.4
60°-70°	101.1	1.2
70°-80°	7.3	0.1
80°-90°	2.9	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°	3936.5	45.4
0°-40°	6244.7	71.9
0°-60°	8568.6	98.7
0°-90°	8679.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8679.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4786	4786	4786	4786	4786	
5°	4741	4765	4798	4843	4865	451
15°	4669	4706	4822	5000	5095	1321
25°	4460	4487	4558	4694	4774	2051
35°	3694	3694	3719	3742	3765	2294
45°	2270	2247	2186	2130	2101	1726
55°	628	645	682	704	724	613
65°	71	73	75	86	88	87
75°	6	12	9	12	12	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4785.5	4785.5	4785.5	4785.5	4785.5
2.5°	4784.7	4792.1	4796.8	4807.0	4811.6
5°	4740.9	4765.0	4797.7	4843.2	4864.6
7.5°	4702.8	4736.2	4806.1	4904.6	4948.3
10°	4678.6	4714.8	4819.1	4953.0	5023.6
12.5°	4681.4	4721.4	4834.0	4994.8	5089.7
15°	4669.3	4705.5	4821.9	5000.4	5095.3
17.5°	4655.3	4685.1	4788.4	4963.2	5065.6
20°	4616.3	4641.4	4739.9	4898.1	4992.9
22.5°	4557.6	4581.0	4662.8	4809.8	4897.2
25°	4460.0	4487.0	4558.5	4693.5	4774.3
27.5°	4351.2	4367.0	4433.0	4555.9	4633.0
30°	4196.8	4202.4	4251.6	4346.6	4393.1
32.5°	3976.3	3975.4	4012.6	4060.0	4077.7
35°	3694.5	3694.5	3718.7	3741.9	3765.2
37.5°	3401.6	3397.8	3400.6	3406.2	3386.7
40°	3053.6	3046.2	3049.9	3016.4	2995.1
42.5°	2672.2	2678.7	2641.6	2582.1	2559.7
45°	2270.5	2247.2	2185.8	2130.0	2101.2
47.5°	1843.5	1807.3	1748.6	1691.0	1686.3
50°	1385.9	1387.8	1349.7	1317.1	1304.1
52.5°	961.7	972.0	991.5	995.2	999.9
55°	627.9	644.6	681.8	704.1	723.6
57.5°	384.2	414.9	446.5	488.3	492.0
60°	224.2	239.0	274.4	306.0	319.9
62.5°	126.4	140.5	147.9	166.5	171.2
65°	70.7	73.4	75.3	85.5	88.3
67.5°	42.8	44.6	46.5	45.6	47.4
70°	3.7	8.4	3.7	4.6	2.8
72.5°	15.8	10.2	11.2	8.4	5.6
75°	5.6	12.1	9.3	12.1	12.1
77.5°	3.7	2.8	4.6	5.6	4.6
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.4	7.4	4.6	7.4	2.8
85°	1.9	0.0	0.0	0.0	1.9
87.5°	5.6	2.8	2.8	6.5	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)