

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 EC8B90927 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 EC8B90927 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: 7374.4 lumens
Efficiency: N/A
Efficacy: 85.6 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

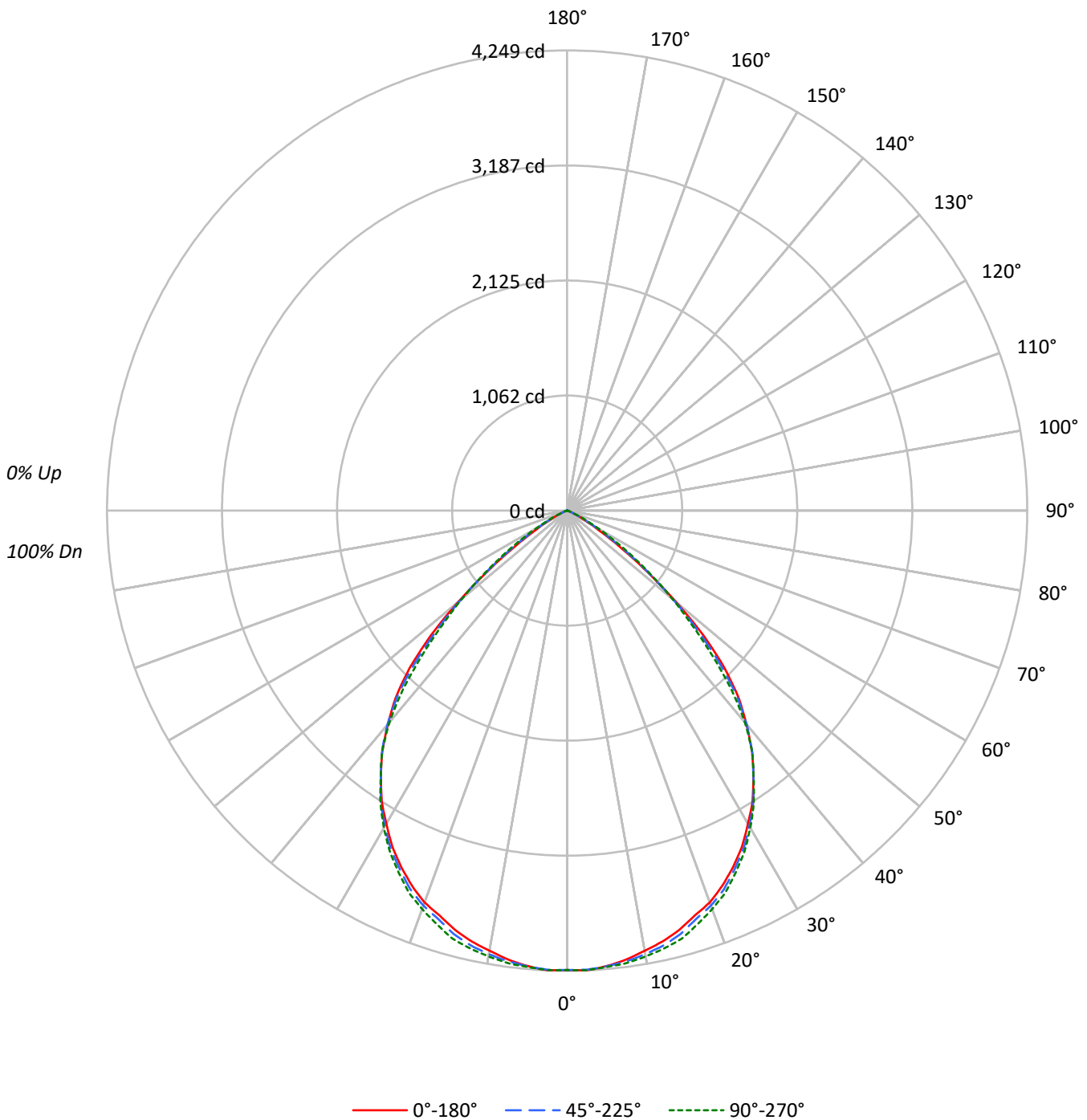
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	5.4
10°-20°	1139.6	15.5
20°-30°	1680.7	22.8
30°-40°	1870.7	25.4
40°-50°	1505.5	20.4
50°-60°	640.2	8.7
60°-70°	120.0	1.6
70°-80°	14.6	0.2
80°-90°	1.8	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°	3221.6	43.7
0°-40°	5092.3	69.1
0°-60°	7238.0	98.2
0°-90°	7374.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7374.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4242	4242	4242	4242	4242	
5°	4221	4222	4223	4230	4229	400
15°	4007	4029	4048	4079	4092	1129
25°	3628	3641	3655	3676	3685	1667
35°	2997	2998	3000	3001	3001	1867
45°	2057	2040	1984	1924	1896	1546
55°	635	650	688	716	733	605
65°	79	88	100	107	119	103
75°	8	10	15	14	13	13
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4242.4	4242.4	4242.4	4242.4	4242.4
2.5°	4249.3	4252.0	4243.2	4245.0	4247.7
5°	4221.1	4222.0	4222.9	4230.0	4229.1
7.5°	4181.4	4187.6	4198.2	4211.4	4214.9
10°	4127.6	4143.5	4159.3	4175.2	4180.5
12.5°	4074.6	4084.4	4112.7	4128.5	4141.7
15°	4006.7	4028.7	4048.2	4079.1	4092.3
17.5°	3920.3	3936.2	3954.7	3985.5	4004.1
20°	3850.5	3854.9	3881.5	3908.8	3915.0
22.5°	3747.4	3757.0	3784.4	3803.0	3818.8
25°	3628.2	3641.4	3654.7	3675.8	3684.7
27.5°	3497.6	3505.6	3524.1	3539.1	3547.0
30°	3339.7	3357.3	3365.2	3372.3	3382.9
32.5°	3186.1	3191.4	3198.5	3202.9	3208.2
35°	2997.3	2998.2	2999.9	3000.8	3000.8
37.5°	2804.1	2810.2	2808.6	2803.2	2805.9
40°	2575.6	2586.2	2580.0	2564.1	2553.5
42.5°	2345.3	2340.0	2318.8	2271.2	2249.1
45°	2056.7	2040.0	1984.4	1924.4	1896.2
47.5°	1710.9	1673.8	1627.1	1580.3	1561.7
50°	1311.2	1305.9	1284.8	1266.2	1268.0
52.5°	939.7	953.0	957.4	975.0	983.8
55°	635.3	649.5	688.3	715.6	733.3
57.5°	386.4	413.8	455.3	500.3	523.2
60°	244.5	260.3	298.2	327.4	338.0
62.5°	152.7	153.6	172.0	195.0	204.8
65°	79.4	88.2	99.7	106.8	119.1
67.5°	49.4	49.4	48.5	59.1	66.1
70°	32.6	28.2	29.1	35.3	37.9
72.5°	11.5	19.5	17.7	17.7	12.4
75°	8.0	9.7	15.0	14.1	13.3
77.5°	10.6	9.7	7.1	6.2	12.4
80°	4.4	3.5	0.9	5.3	5.3
82.5°	4.4	1.8	5.3	7.1	4.4
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)