

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: P247664

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009727 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 7036.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

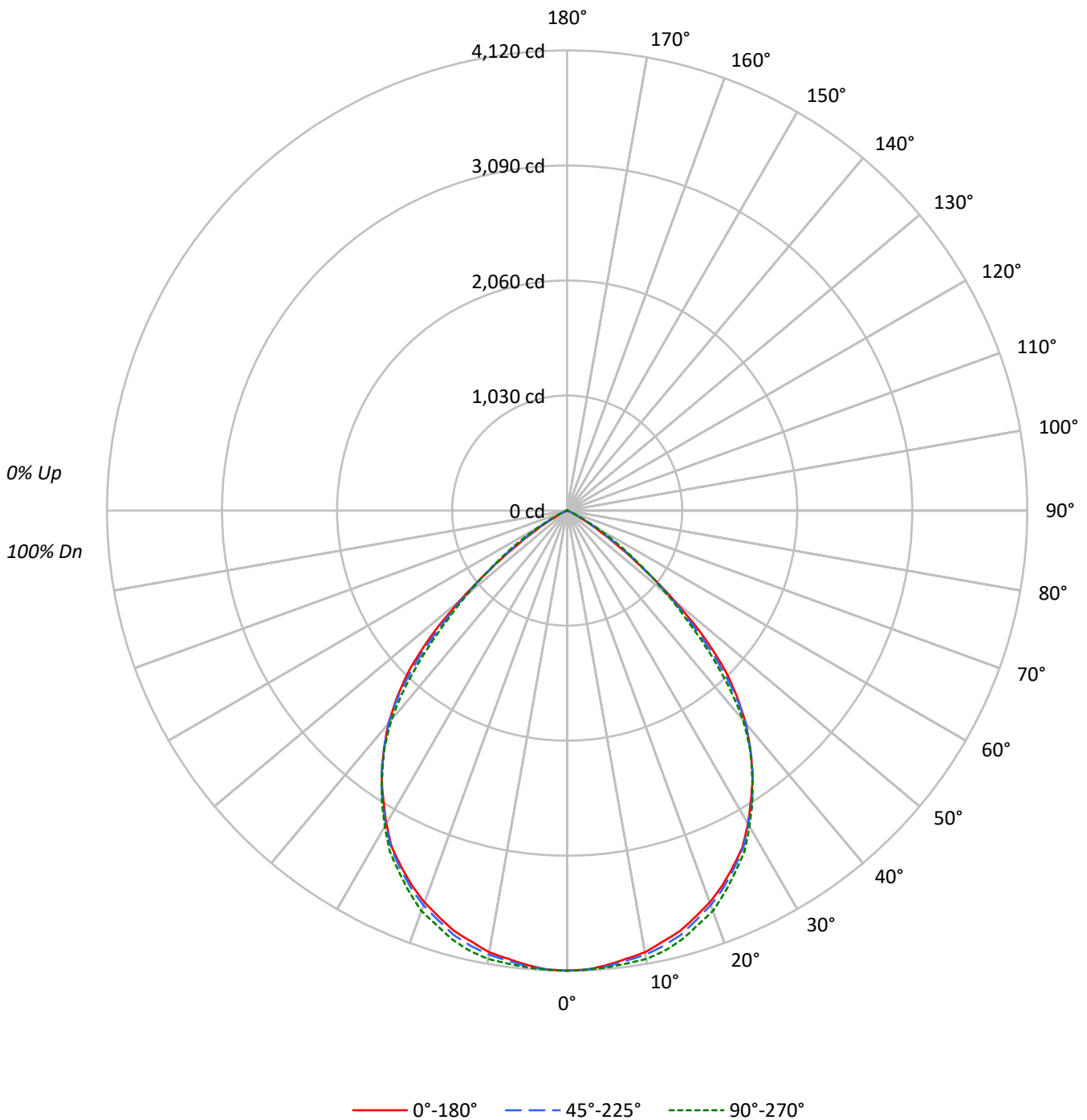
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	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°	389.1	5.5
10°-20°	1107.1	15.7
20°-30°	1626.5	23.1
30°-40°	1800.7	25.6
40°-50°	1435.0	20.4
50°-60°	588.0	8.4
60°-70°	86.6	1.2
70°-80°	1.2	0.0
80°-90°	1.7	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°	3122.7	44.4
0°-40°	4923.4	70.0
0°-60°	6946.4	98.7
0°-90°	7036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4120	4120	4120	4120	4120	
5°	4085	4093	4096	4102	4106	388
15°	3899	3902	3932	3970	3975	1097
25°	3516	3513	3535	3556	3567	1617
35°	2895	2891	2899	2896	2887	1799
45°	1974	1956	1894	1823	1807	1482
55°	581	601	632	668	669	559
65°	55	58	68	74	72	73
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4119.7	4119.7	4119.7	4119.7	4119.7
2.5°	4112.5	4113.4	4113.4	4108.8	4114.3
5°	4085.3	4092.6	4096.2	4102.5	4106.1
7.5°	4047.3	4045.5	4064.5	4087.1	4089.8
10°	4015.6	4012.0	4037.4	4067.2	4075.4
12.5°	3953.2	3957.7	3990.3	4021.1	4037.4
15°	3898.9	3901.6	3932.4	3969.5	3974.9
17.5°	3814.8	3822.9	3843.7	3882.6	3889.9
20°	3732.4	3736.1	3759.6	3791.3	3814.8
22.5°	3632.0	3638.3	3656.4	3684.5	3696.2
25°	3516.2	3512.6	3535.2	3556.0	3566.9
27.5°	3398.6	3392.2	3409.4	3429.3	3439.3
30°	3235.7	3233.9	3243.8	3256.5	3264.6
32.5°	3064.7	3069.2	3079.1	3082.8	3085.5
35°	2894.6	2890.9	2899.1	2895.5	2887.3
37.5°	2692.8	2695.5	2695.5	2691.9	2688.3
40°	2487.4	2490.1	2484.7	2464.8	2450.3
42.5°	2246.7	2248.5	2220.5	2176.1	2146.3
45°	1974.3	1956.2	1893.8	1823.2	1807.0
47.5°	1631.4	1600.6	1535.5	1482.1	1463.1
50°	1247.8	1225.1	1203.4	1175.4	1169.9
52.5°	875.0	886.7	894.9	903.9	901.2
55°	580.9	600.8	631.6	667.8	668.7
57.5°	349.3	371.9	410.8	450.6	469.6
60°	205.4	214.4	242.5	272.4	281.4
62.5°	111.3	114.0	126.7	156.5	152.0
65°	55.2	57.9	67.9	74.2	72.4
67.5°	27.1	29.9	31.7	40.7	33.5
70°	6.3	1.8	3.6	4.5	1.8
72.5°	0.0	0.0	1.8	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0	3.6
80°	8.1	5.4	1.8	1.8	2.7
82.5°	2.7	0.9	2.7	0.9	0.0
85°	0.0	0.0	0.0	3.6	0.0
87.5°	4.5	0.9	0.9	2.7	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)