

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: P247376

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009727 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8113.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

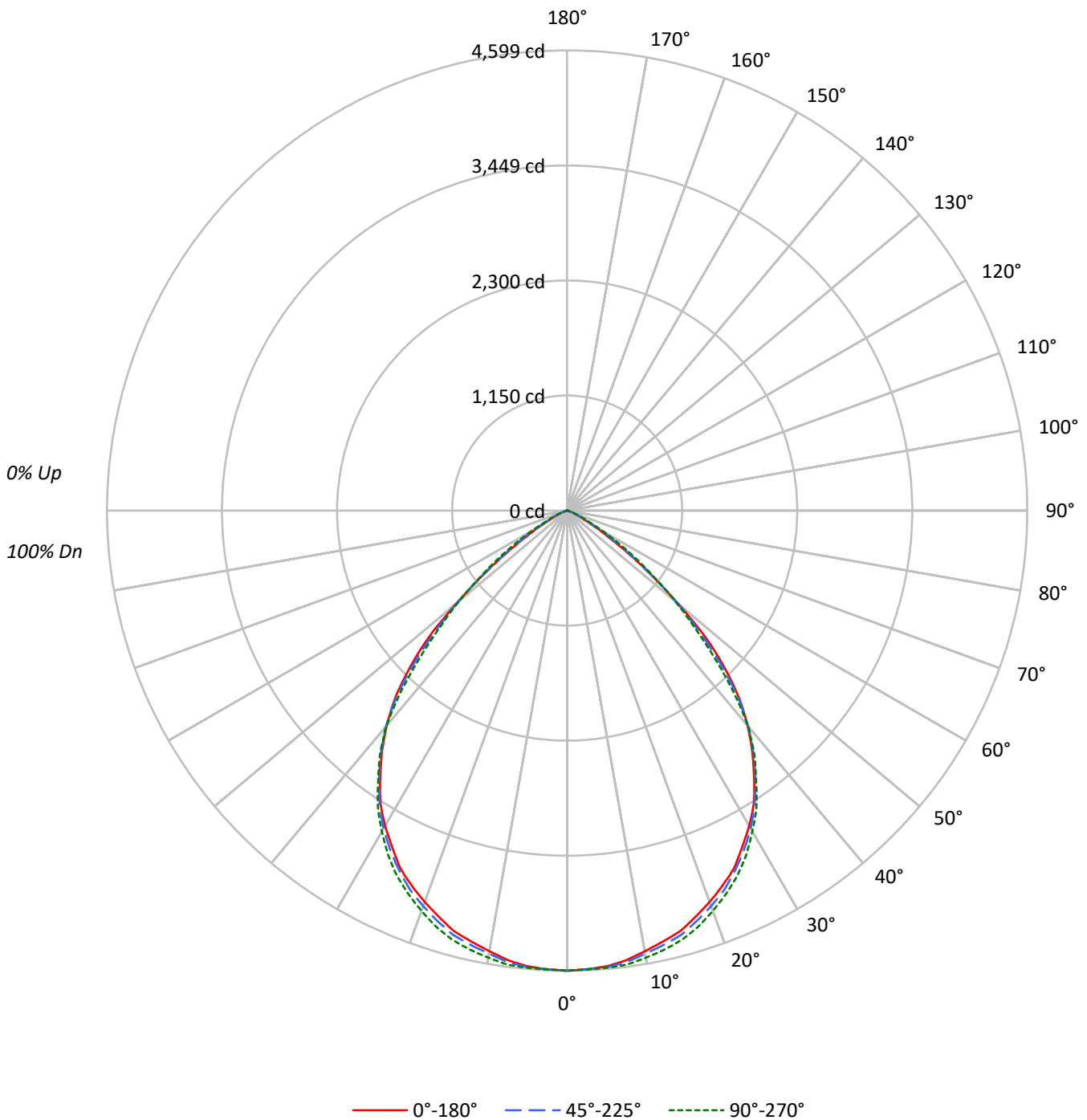
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	91	91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81	81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43	43	43	43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	39	39	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	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°	434.5	5.4
10°-20°	1236.4	15.2
20°-30°	1826.6	22.5
30°-40°	2041.1	25.2
40°-50°	1647.8	20.3
50°-60°	733.0	9.0
60°-70°	165.1	2.0
70°-80°	25.5	0.3
80°-90°	3.0	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°	3497.5	43.1
0°-40°	5538.6	68.3
0°-60°	7919.4	97.6
0°-90°	8113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4599	4599	4599	4599	4599	
5°	4571	4570	4579	4580	4587	433
15°	4354	4357	4392	4425	4439	1225
25°	3945	3945	3971	4003	4026	1809
35°	3258	3256	3278	3281	3295	2030
45°	2232	2215	2174	2097	2087	1688
55°	742	753	786	827	852	698
65°	122	138	148	160	169	142
75°	16	23	24	23	27	21
85°	2	3	4	10	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4598.6	4598.6	4598.6	4598.6	4598.6
2.5°	4586.8	4584.1	4588.6	4585.9	4590.4
5°	4571.4	4570.5	4578.7	4579.6	4586.8
7.5°	4531.6	4532.5	4549.7	4562.4	4576.9
10°	4471.0	4474.6	4497.2	4525.3	4537.0
12.5°	4413.1	4417.6	4446.6	4485.5	4494.5
15°	4354.3	4357.0	4392.3	4424.8	4439.3
17.5°	4258.3	4276.4	4303.6	4340.7	4359.7
20°	4162.4	4175.1	4205.9	4246.6	4257.4
22.5°	4057.5	4071.0	4101.8	4135.3	4147.0
25°	3945.3	3945.3	3970.6	4003.2	4025.8
27.5°	3788.7	3807.7	3825.8	3854.8	3877.4
30°	3639.4	3646.6	3668.4	3691.9	3702.7
32.5°	3473.8	3474.7	3484.7	3510.9	3520.9
35°	3257.5	3255.7	3277.5	3281.1	3294.6
37.5°	3041.3	3050.3	3058.5	3071.1	3072.0
40°	2805.1	2809.6	2818.7	2805.1	2811.4
42.5°	2548.1	2541.8	2524.6	2483.9	2466.7
45°	2232.3	2215.1	2173.5	2096.6	2086.6
47.5°	1883.9	1841.4	1790.7	1733.7	1722.9
50°	1448.7	1452.3	1427.0	1408.0	1409.8
52.5°	1056.0	1068.7	1075.0	1093.1	1103.0
55°	742.0	752.9	786.3	827.1	851.5
57.5°	480.5	501.3	544.7	590.9	608.1
60°	306.8	320.3	359.2	392.7	415.3
62.5°	200.9	205.4	227.1	257.9	258.8
65°	122.2	137.5	147.5	160.2	169.2
67.5°	79.6	79.6	88.7	100.4	103.2
70°	46.1	47.1	51.6	56.1	58.8
72.5°	25.3	28.1	30.8	35.3	39.8
75°	16.3	22.6	23.5	22.6	27.1
77.5°	10.9	10.9	9.0	15.4	16.3
80°	9.0	6.3	8.1	11.8	12.7
82.5°	0.0	0.9	0.9	1.8	0.0
85°	1.8	2.7	4.5	10.0	2.7
87.5°	0.0	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)