

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: P246678

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1061.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

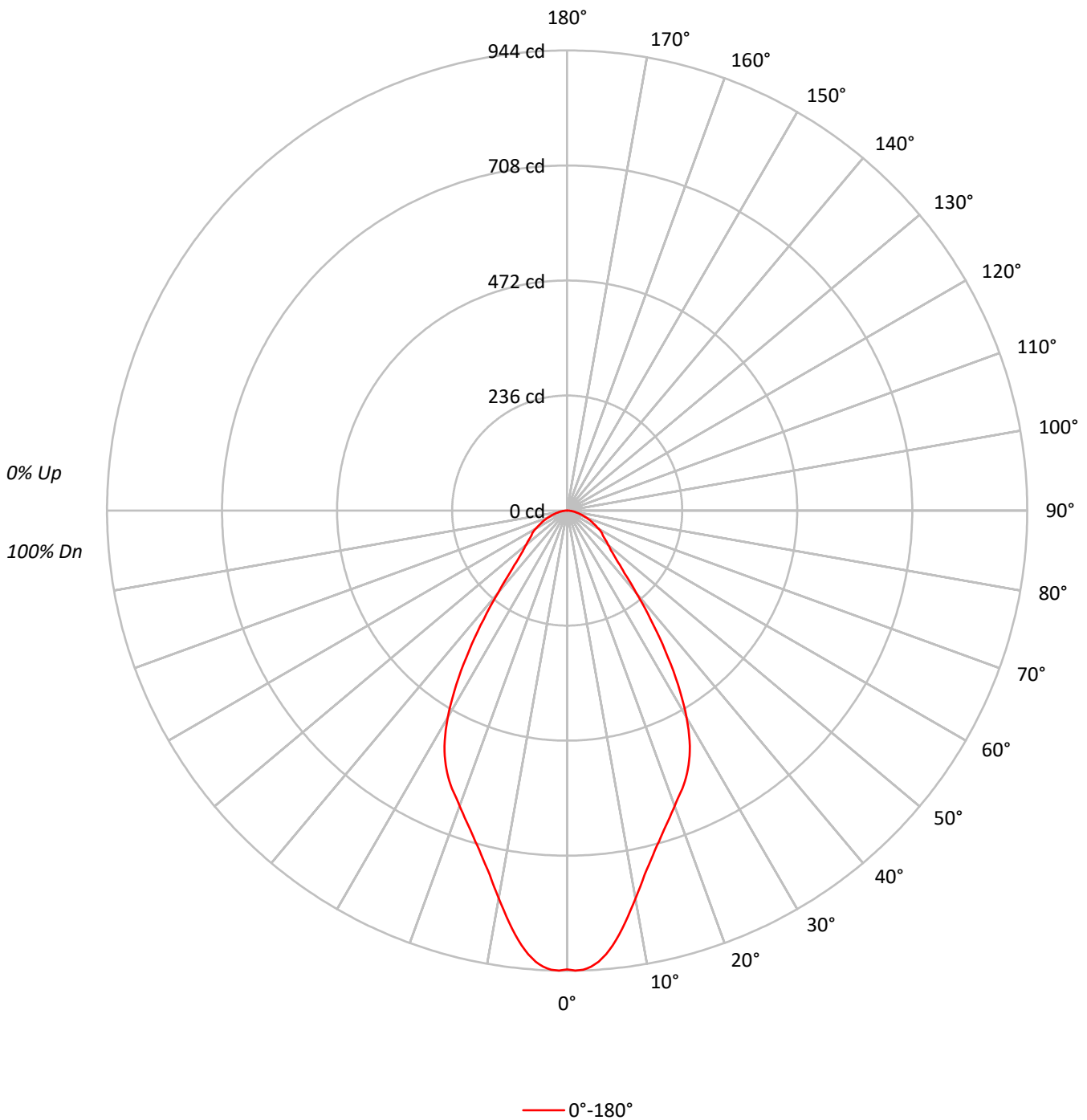
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246678

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246678

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBM0MW

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29023
5°	28286
10°	25288
15°	22724
20°	21163
25°	19938
30°	17433
35°	13209
40°	8872
45°	6254
50°	5301
55°	4833
60°	4582
65°	4123
70°	3706
75°	3336
80°	2930
85°	2830



TEST NUMBER: P246678

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	7.9
10°-20°	200.7	18.9
20°-30°	266.0	25.1
30°-40°	218.2	20.6
40°-50°	116.2	11.0
50°-60°	81.8	7.7
60°-70°	56.4	5.3
70°-80°	29.3	2.8
80°-90°	8.7	0.8
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°	550.4	51.9
0°-40°	768.6	72.4
0°-60°	966.5	91.1
0°-90°	1061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	941	
5°	914	84
15°	712	201
25°	586	266
35°	351	218
45°	143	116
55°	90	82
65°	56	56
75°	28	29
85°	8	9
90°	0	



TEST NUMBER: P246678

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	941.2
1°	943.9
2°	942.7
3°	937.1
4°	927.6
5°	913.8
6°	896.7
7°	876.0
8°	853.9
9°	830.4
10°	807.6
11°	785.9
12°	763.7
13°	745.3
14°	727.8
15°	711.8
16°	696.8
17°	682.9
18°	670.1
19°	657.2
20°	644.9
21°	632.9
22°	622.5
23°	611.8
24°	599.2
25°	586.0
26°	571.0
27°	554.1
28°	535.0
29°	513.8
30°	489.6
31°	464.1
32°	437.4
33°	408.9
34°	380.3
35°	350.9
37.5°	281.2
40°	220.4
42.5°	174.0
45°	143.4
47.5°	123.1
50°	110.5
52.5°	99.5
55°	89.9
57.5°	84.1



TEST NUMBER: P246678

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	74.3
62.5°	64.8
65°	56.5
67.5°	49.1
70°	41.1
72.5°	34.3
75°	28.0
77.5°	20.2
80°	16.5
82.5°	12.0
85°	8.0
87.5°	3.7
90°	0.0

(END OF REPORT)