

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: P249870

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9921.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

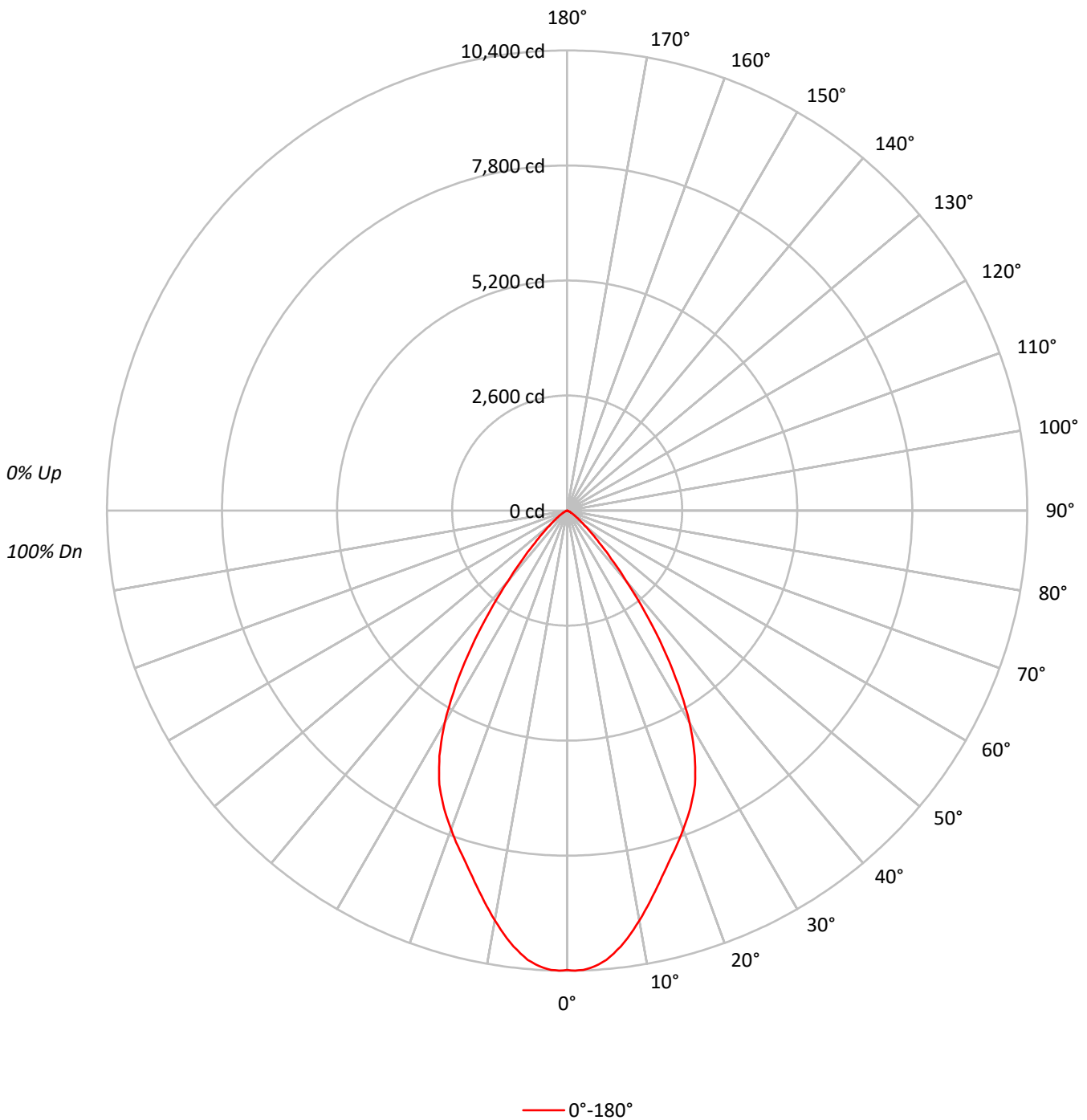
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249870

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBM0H

Luminous Intensity Polar Plot





TEST NUMBER: P249870

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBM0H

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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320207
5°	315494
10°	294433
15°	270260
20°	251710
25°	232558
30°	197211
35°	141870
40°	83575
45°	44664
50°	23305
55°	13139
60°	7253
65°	4290
70°	1956
75°	1108
80°	550
85°	0



TEST NUMBER: P249870

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBM0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.7	9.5
10°-20°	2381.9	24.0
20°-30°	3092.1	31.2
30°-40°	2333.9	23.5
40°-50°	854.0	8.6
50°-60°	238.7	2.4
60°-70°	62.7	0.6
70°-80°	10.6	0.1
80°-90°	0.4	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°	6420.7	64.7
0°-40°	8754.6	88.2
0°-60°	9847.3	99.3
0°-90°	9921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9921.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10384	
5°	10192	947
15°	8466	2382
25°	6835	3092
35°	3769	2334
45°	1024	854
55°	244	239
65°	59	63
75°	9	11
85°	0	0
90°	0	



TEST NUMBER: P249870

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBM0H

CANDELA DISTRIBUTION (FULL):

	0°
0°	10384.1
1°	10399.6
2°	10387.2
3°	10347.0
4°	10278.9
5°	10192.3
6°	10065.4
7°	9926.2
8°	9765.3
9°	9588.9
10°	9403.2
11°	9217.6
12°	9025.8
13°	8830.8
14°	8645.2
15°	8465.7
16°	8295.5
17°	8131.5
18°	7983.0
19°	7828.3
20°	7670.5
22.5°	7277.5
25°	6835.1
27.5°	6250.3
30°	5538.6
32.5°	4681.5
35°	3768.7
37.5°	2877.6
40°	2076.2
42.5°	1469.7
45°	1024.2
47.5°	720.9
50°	485.8
52.5°	355.8
55°	244.4
57.5°	176.4
60°	117.6
62.5°	86.6
65°	58.8
67.5°	40.2
70°	21.7
72.5°	15.5
75°	9.3
77.5°	3.1
80°	3.1



TEST NUMBER: P249870

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBM0H

CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)