

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: P250039

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10747.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

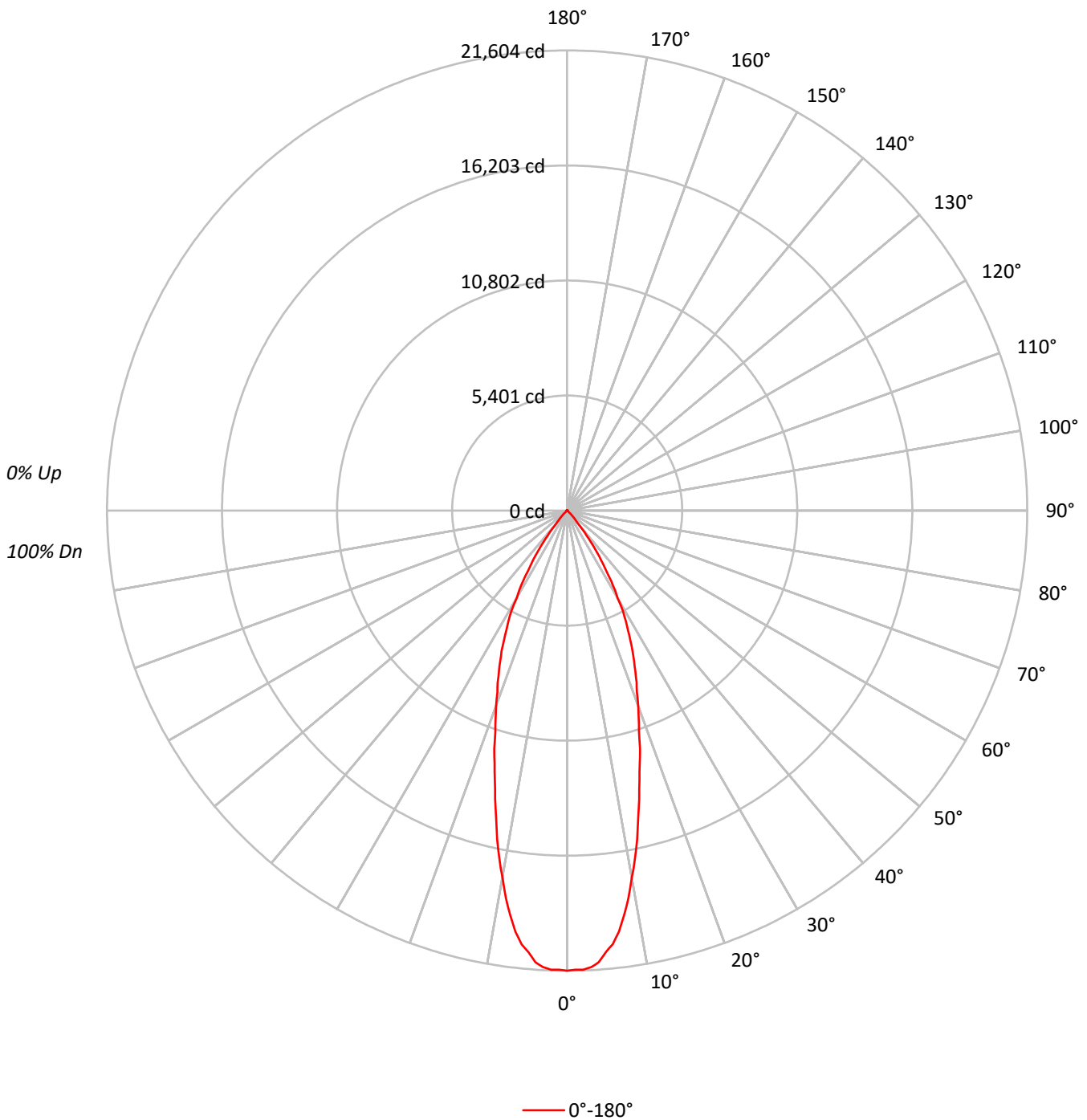
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250039

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250039

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBN0WH

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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	666191
5°	644242
10°	547888
15°	418171
20°	319585
25°	247655
30°	168911
35°	99238
40°	30343
45°	11936
50°	182
55°	204
60°	234
65°	547
70°	1019
75°	894
80°	675
85°	3998



TEST NUMBER: P250039

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1886.8	17.6
10°-20°	3656.2	34.0
20°-30°	3291.7	30.6
30°-40°	1628.6	15.2
40°-50°	247.7	2.3
50°-60°	10.2	0.1
60°-70°	13.1	0.1
70°-80°	5.0	0.0
80°-90°	7.7	0.1
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°	8834.7	82.2
0°-40°	10463.4	97.4
0°-60°	10721.3	99.8
0°-90°	10747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10747.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21604	
5°	20813	###
15°	13099	3656
25°	7279	3292
35°	2636	1629
45°	274	248
55°	4	10
65°	8	13
75°	8	5
85°	11	8
90°	0	



TEST NUMBER: P250039

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBN0WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	21604.1
1°	21559.1
2°	21570.2
3°	21461.5
4°	21262.8
5°	20812.8
6°	20467.8
7°	19920.3
8°	19185.3
9°	18420.2
10°	17497.7
11°	16672.7
12°	15787.8
13°	14809.0
14°	13965.2
15°	13098.9
16°	12360.1
17°	11707.7
18°	10905.1
19°	10316.3
20°	9738.9
21°	9138.8
22°	8700.1
23°	8190.1
24°	7721.3
25°	7278.8
26°	6757.5
27°	6288.9
28°	5868.8
29°	5407.5
30°	4743.8
31°	4368.9
32°	3896.3
33°	3378.8
34°	2985.0
35°	2636.2
37.5°	1668.7
40°	753.8
42.5°	513.8
45°	273.7
47.5°	153.7
50°	3.8
52.5°	15.0
55°	3.8
57.5°	22.6



TEST NUMBER: P250039

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBN0WH

CANDELA DISTRIBUTION (continued):

	0°
60°	3.8
62.5°	18.8
65°	7.5
67.5°	18.8
70°	11.3
72.5°	3.8
75°	7.5
77.5°	0.0
80°	3.8
82.5°	15.0
85°	11.3
87.5°	0.0
90°	0.0

(END OF REPORT)