

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: P250053

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250053
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 EC8B120835 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11455.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

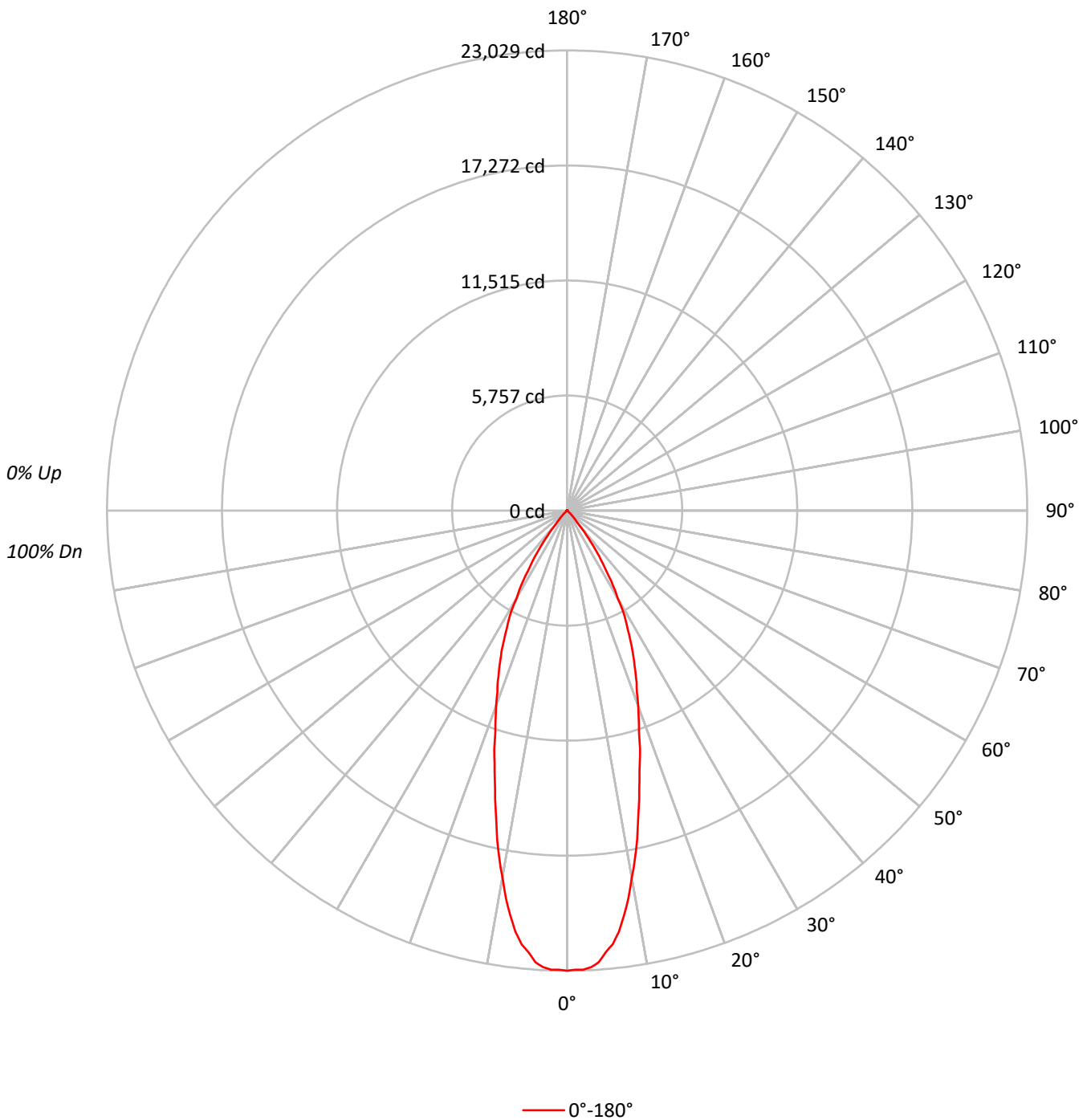
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250053

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250053

CATALOG NUMBER: LSR8B120D010 EC8B120835 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°	710139
5°	686745
10°	584032
15°	445756
20°	340669
25°	263993
30°	180056
35°	105784
40°	32344
45°	12725
50°	192
55°	215
60°	247
65°	584
70°	1082
75°	953
80°	710
85°	4246



TEST NUMBER: P250053

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2011.3	17.6
10°-20°	3897.4	34.0
20°-30°	3508.9	30.6
30°-40°	1736.0	15.2
40°-50°	264.1	2.3
50°-60°	10.8	0.1
60°-70°	13.9	0.1
70°-80°	5.3	0.0
80°-90°	8.2	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°	9417.6	82.2
0°-40°	11153.6	97.4
0°-60°	11428.6	99.8
0°-90°	11455.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11455.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23029	
5°	22186	###
15°	13963	3897
25°	7759	3509
35°	2810	1736
45°	292	264
55°	4	11
65°	8	14
75°	8	5
85°	12	8
90°	0	



TEST NUMBER: P250053

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBN0WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	23029.3
1°	22981.4
2°	22993.3
3°	22877.3
4°	22665.6
5°	22185.9
6°	21818.1
7°	21234.5
8°	20451.0
9°	19635.4
10°	18652.0
11°	17772.7
12°	16829.3
13°	15785.9
14°	14886.5
15°	13963.0
16°	13175.5
17°	12480.1
18°	11624.6
19°	10996.9
20°	10381.4
21°	9741.7
22°	9274.1
23°	8730.4
24°	8230.7
25°	7759.0
26°	7203.3
27°	6703.8
28°	6256.0
29°	5764.3
30°	5056.8
31°	4657.1
32°	4153.3
33°	3601.7
34°	3181.9
35°	2810.1
37.5°	1778.8
40°	803.5
42.5°	547.7
45°	291.8
47.5°	163.8
50°	4.0
52.5°	16.0
55°	4.0
57.5°	24.1



TEST NUMBER: P250053

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBN0WH

CANDELA DISTRIBUTION (continued):

	0°
60°	4.0
62.5°	20.0
65°	8.0
67.5°	20.0
70°	12.0
72.5°	4.0
75°	8.0
77.5°	0.0
80°	4.0
82.5°	16.0
85°	12.0
87.5°	0.0
90°	0.0

(END OF REPORT)