

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: P249962

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120830 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10446.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

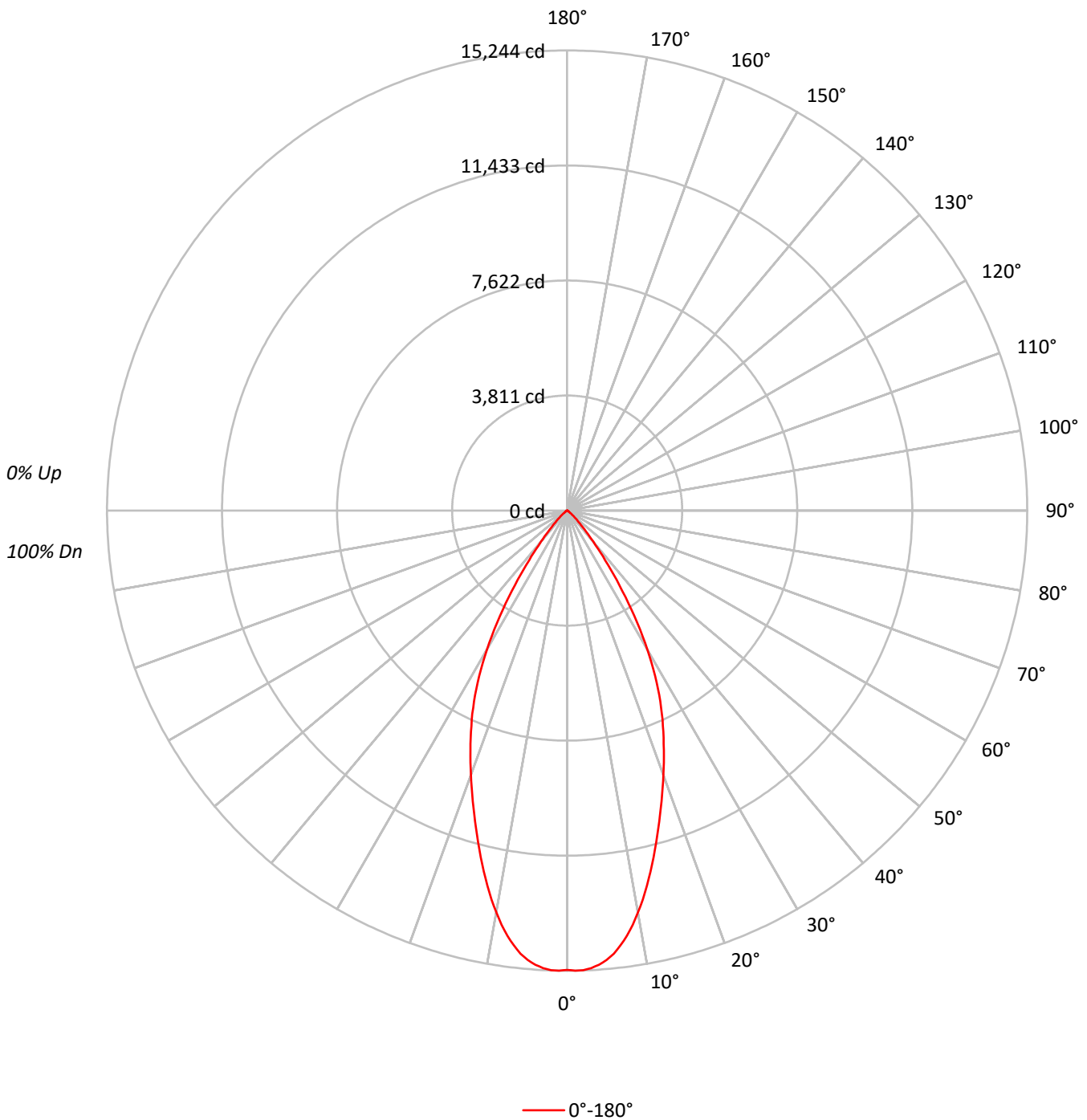
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249962

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P249962

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBN0WMH

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	469168
5°	462634
10°	423244
15°	363389
20°	306013
25°	252837
30°	189648
35°	113045
40°	53860
45°	23462
50°	10640
55°	4688
60°	2689
65°	1598
70°	1641
75°	0
80°	639
85°	2583



TEST NUMBER: P249962

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1380.9	13.2
10°-20°	3168.4	30.3
20°-30°	3366.0	32.2
30°-40°	1920.5	18.4
40°-50°	476.2	4.6
50°-60°	93.6	0.9
60°-70°	28.2	0.3
70°-80°	6.7	0.1
80°-90°	5.5	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°	7915.3	75.8
0°-40°	9835.8	94.2
0°-60°	10405.6	99.6
0°-90°	10446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10446.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15215	
5°	14946	###
15°	11383	3168
25°	7431	3366
35°	3003	1920
45°	538	476
55°	87	94
65°	22	28
75°	0	7
85°	7	5
90°	0	



TEST NUMBER: P249962

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	15214.8
1°	15244.0
2°	15233.1
3°	15178.5
4°	15084.1
5°	14945.8
6°	14764.2
7°	14513.2
8°	14225.9
9°	13888.0
10°	13517.0
11°	13124.5
12°	12702.7
13°	12273.7
14°	11833.8
15°	11382.9
16°	10957.6
17°	10528.7
18°	10125.0
19°	9714.3
20°	9325.3
22.5°	8361.8
25°	7431.1
27.5°	6431.4
30°	5326.2
32.5°	4140.9
35°	3003.0
37.5°	2068.6
40°	1338.0
42.5°	847.2
45°	538.0
47.5°	352.7
50°	221.8
52.5°	134.6
55°	87.2
57.5°	69.1
60°	43.6
62.5°	39.9
65°	21.9
67.5°	21.9
70°	18.2
72.5°	10.9
75°	0.0
77.5°	3.6
80°	3.6



TEST NUMBER: P249962

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBN0WMH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	7.3
85°	7.3
87.5°	3.6
90°	0.0

(END OF REPORT)