

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: P249976

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249976
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 EC8B120840 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10791.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

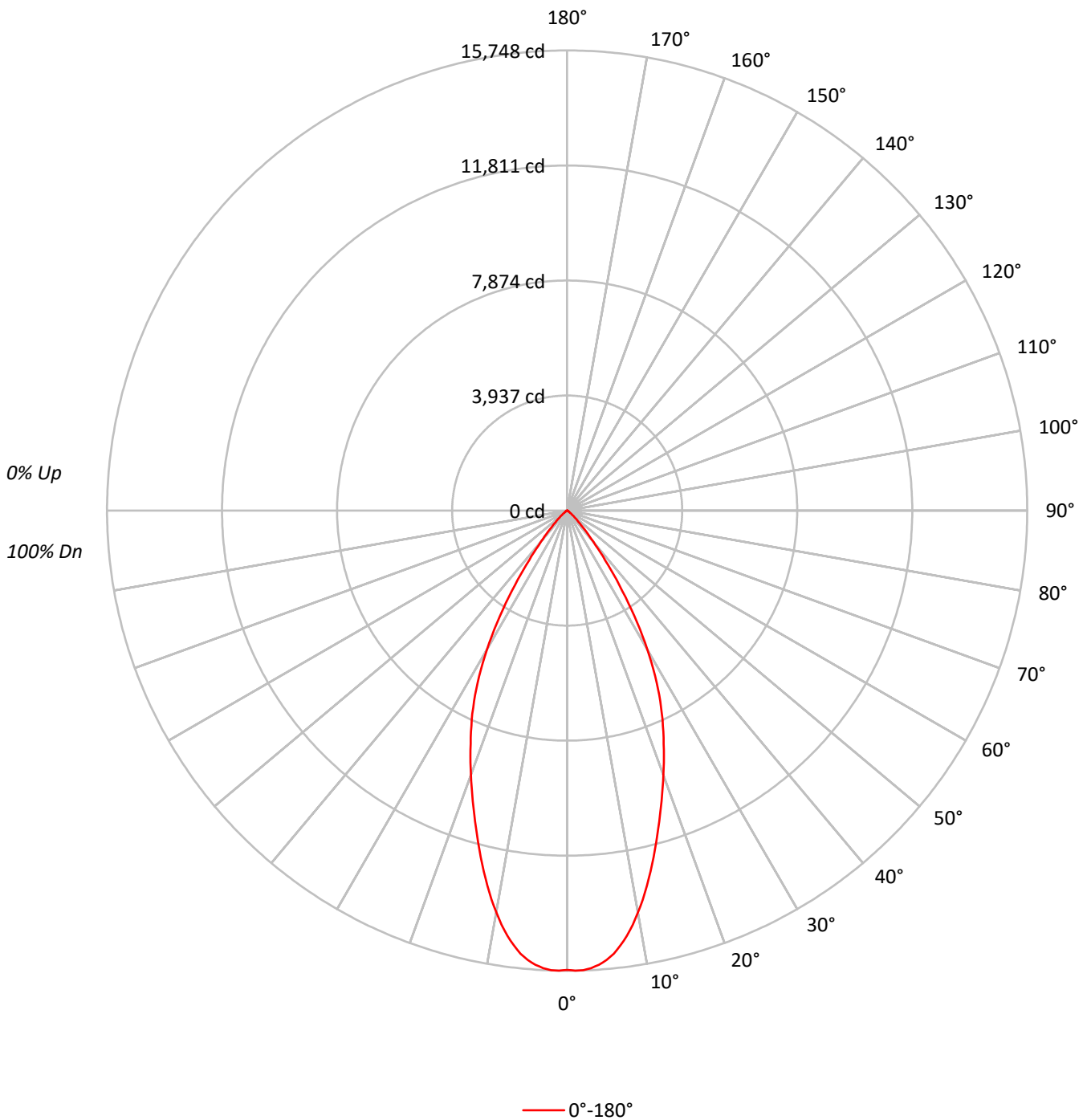
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249976

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P249976

CATALOG NUMBER: LSR8B120D010 EC8B120840 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°	484664
5°	477913
10°	437222
15°	375392
20°	316120
25°	261186
30°	195912
35°	116776
40°	55639
45°	24238
50°	10991
55°	4844
60°	2775
65°	1649
70°	1695
75°	0
80°	675
85°	2654



TEST NUMBER: P249976

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1426.5	13.2
10°-20°	3273.0	30.3
20°-30°	3477.2	32.2
30°-40°	1983.9	18.4
40°-50°	491.9	4.6
50°-60°	96.7	0.9
60°-70°	29.2	0.3
70°-80°	6.9	0.1
80°-90°	5.6	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°	8176.7	75.8
0°-40°	10160.6	94.2
0°-60°	10749.2	99.6
0°-90°	10791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10791.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15717	
5°	15439	###
15°	11759	3273
25°	7676	3477
35°	3102	1984
45°	556	492
55°	90	97
65°	23	29
75°	0	7
85°	8	6
90°	0	



TEST NUMBER: P249976

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

0°	
0°	15717.3
1°	15747.5
2°	15736.2
3°	15679.8
4°	15582.2
5°	15439.4
6°	15251.8
7°	14992.5
8°	14695.8
9°	14346.7
10°	13963.4
11°	13558.0
12°	13122.2
13°	12679.1
14°	12224.6
15°	11758.9
16°	11319.5
17°	10876.4
18°	10459.4
19°	10035.1
20°	9633.3
22.5°	8637.9
25°	7676.5
27.5°	6643.8
30°	5502.1
32.5°	4277.6
35°	3102.1
37.5°	2136.9
40°	1382.2
42.5°	875.1
45°	555.8
47.5°	364.4
50°	229.1
52.5°	139.0
55°	90.1
57.5°	71.4
60°	45.0
62.5°	41.3
65°	22.6
67.5°	22.6
70°	18.8
72.5°	11.3
75°	0.0
77.5°	3.8
80°	3.8



TEST NUMBER: P249976

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBN0WMH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	7.5
85°	7.5
87.5°	3.8
90°	0.0

(END OF REPORT)