

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: P249857

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209727 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7732.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

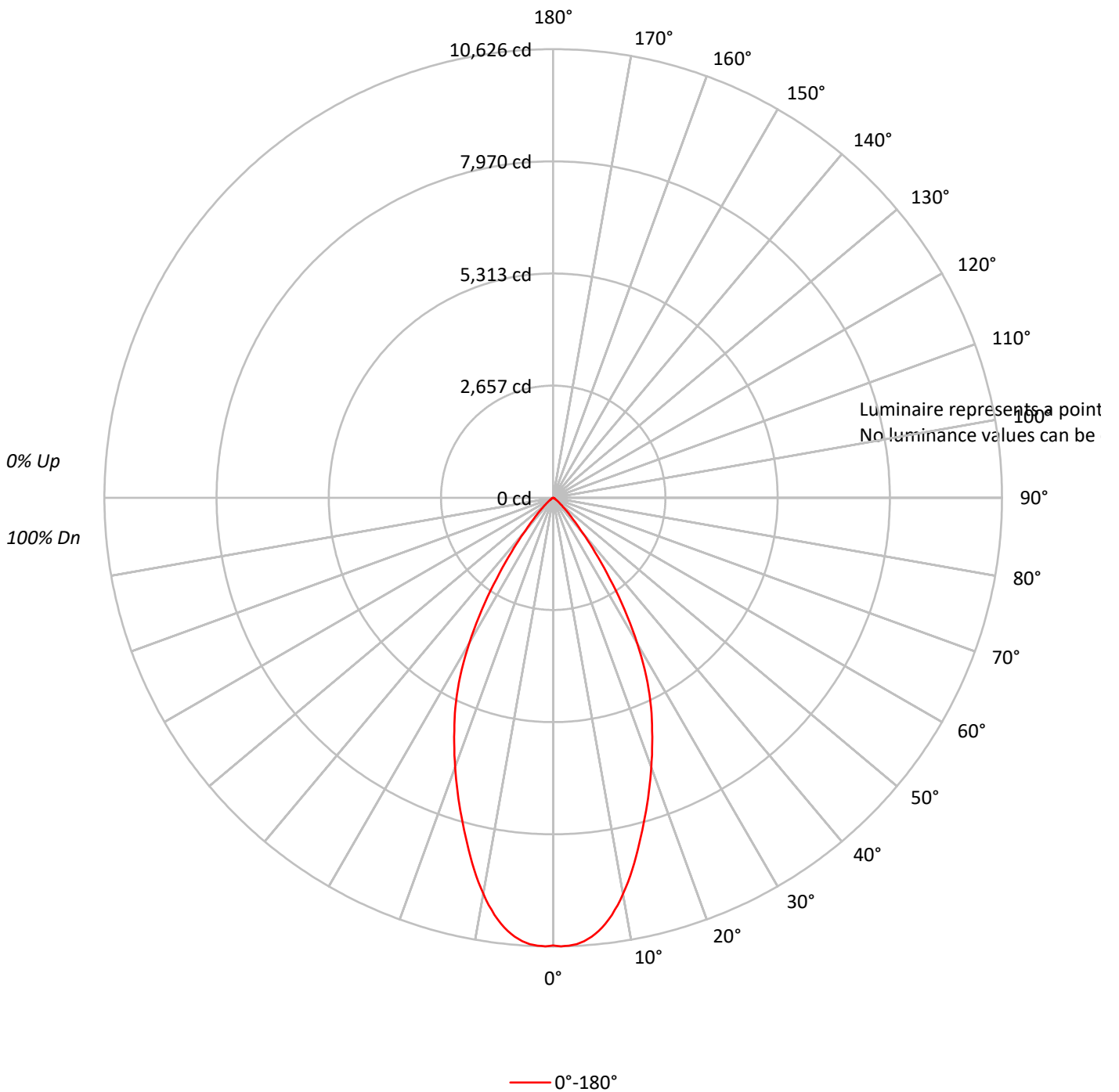
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.0	12.5
10°-20°	2270.3	29.4
20°-30°	2481.4	32.1
30°-40°	1476.6	19.1
40°-50°	405.0	5.2
50°-60°	91.8	1.2
60°-70°	28.3	0.4
70°-80°	8.6	0.1
80°-90°	2.8	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°	5718.8	74.0
0°-40°	7195.4	93.1
0°-60°	7692.2	99.5
0°-90°	7732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7732.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10605	
5°	10435	967
15°	8148	2270
25°	5482	2481
35°	2337	1477
45°	474	405
55°	92	92
65°	29	28
75°	8	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10604.9
1°	10625.9
2°	10612.8
3°	10586.6
4°	10526.4
5°	10434.9
6°	10317.1
7°	10160.1
8°	9977.0
9°	9765.0
10°	9526.9
11°	9273.1
12°	9001.0
13°	8721.0
14°	8430.6
15°	8148.0
16°	7870.6
17°	7598.5
18°	7326.4
19°	7054.3
20°	6790.0
22.5°	6125.4
25°	5481.7
27.5°	4772.6
30°	3985.0
32.5°	3139.9
35°	2336.6
37.5°	1624.9
40°	1078.0
42.5°	706.5
45°	473.6
47.5°	314.0
50°	209.3
52.5°	128.2
55°	91.6
57.5°	65.4
60°	49.7
62.5°	36.6
65°	28.8
67.5°	18.3
70°	13.1
72.5°	10.5
75°	7.8
77.5°	5.2
80°	5.2



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0

(END OF REPORT)