

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: P249849

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249849
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: LSR8B100D010 EC8B100950 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9033.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

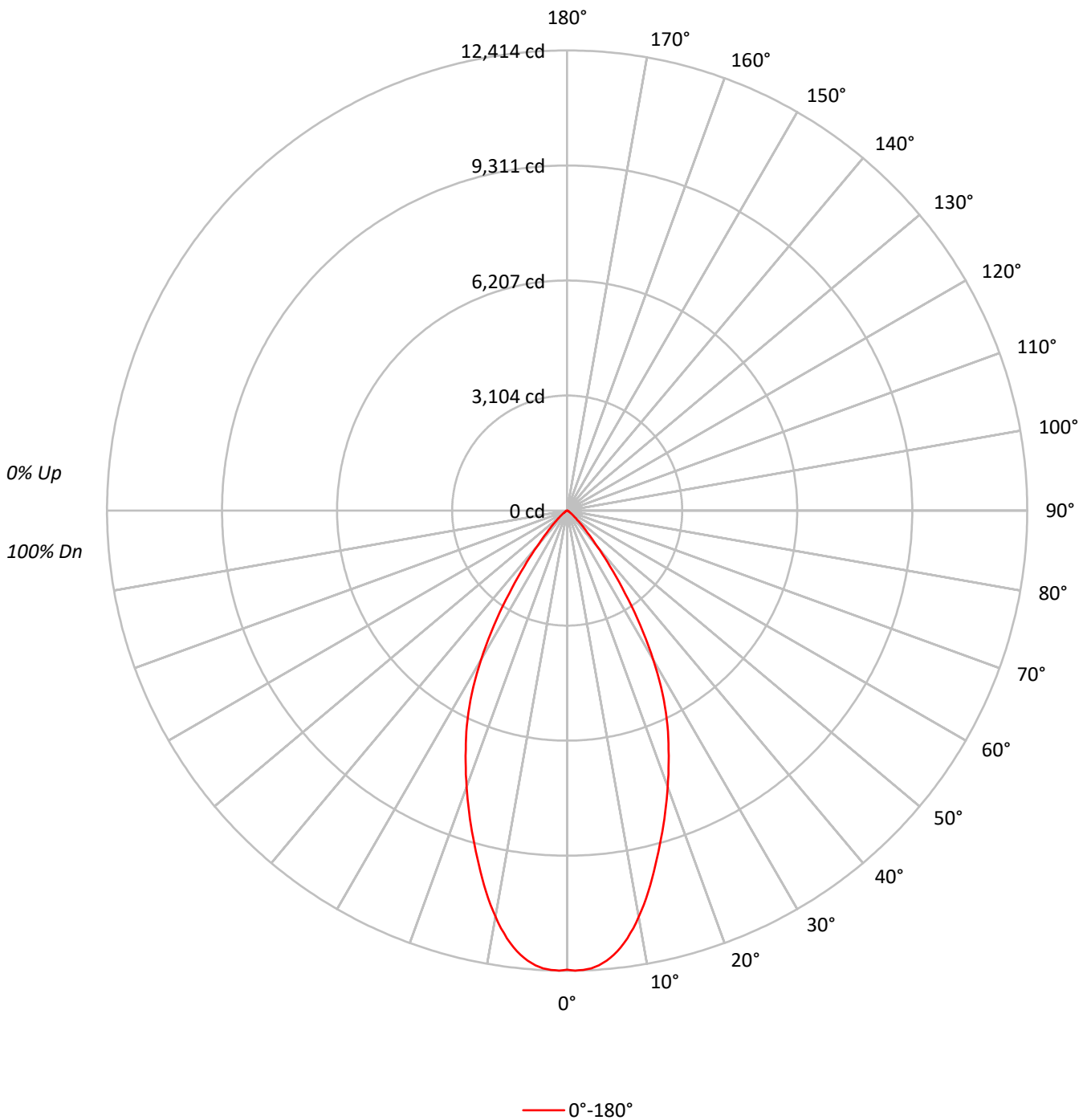
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):

	0°
0°	382040
5°	377352
10°	348500
15°	303886
20°	260308
25°	217894
30°	165771
35°	102761
40°	50696
45°	24129
50°	11729
55°	5752
60°	3583
65°	2452
70°	1379
75°	1096
80°	1083
85°	1097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1129.8	12.5
10°-20°	2652.3	29.4
20°-30°	2898.9	32.1
30°-40°	1725.1	19.1
40°-50°	473.2	5.2
50°-60°	107.2	1.2
60°-70°	33.1	0.4
70°-80°	10.1	0.1
80°-90°	3.4	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°	6681.0	74.0
0°-40°	8406.1	93.1
0°-60°	8986.5	99.5
0°-90°	9033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9033.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12389	
5°	12191	###
15°	9519	2652
25°	6404	2899
35°	2730	1725
45°	553	473
55°	107	107
65°	34	33
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12389.3
1°	12413.8
2°	12398.5
3°	12367.9
4°	12297.6
5°	12190.7
6°	12053.1
7°	11869.7
8°	11655.7
9°	11408.1
10°	11129.9
11°	10833.4
12°	10515.5
13°	10188.4
14°	9849.1
15°	9519.0
16°	9195.0
17°	8877.0
18°	8559.1
19°	8241.2
20°	7932.5
22.5°	7156.0
25°	6404.1
27.5°	5575.7
30°	4655.6
32.5°	3668.2
35°	2729.8
37.5°	1898.3
40°	1259.4
42.5°	825.3
45°	553.3
47.5°	366.8
50°	244.5
52.5°	149.8
55°	107.0
57.5°	76.4
60°	58.1
62.5°	42.8
65°	33.6
67.5°	21.4
70°	15.3
72.5°	12.2
75°	9.2
77.5°	6.1
80°	6.1



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	3.1
85°	3.1
87.5°	3.1
90°	0.0

(END OF REPORT)