

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: P249844

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249844
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: LSR8B150D010 EC8B150940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12694.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

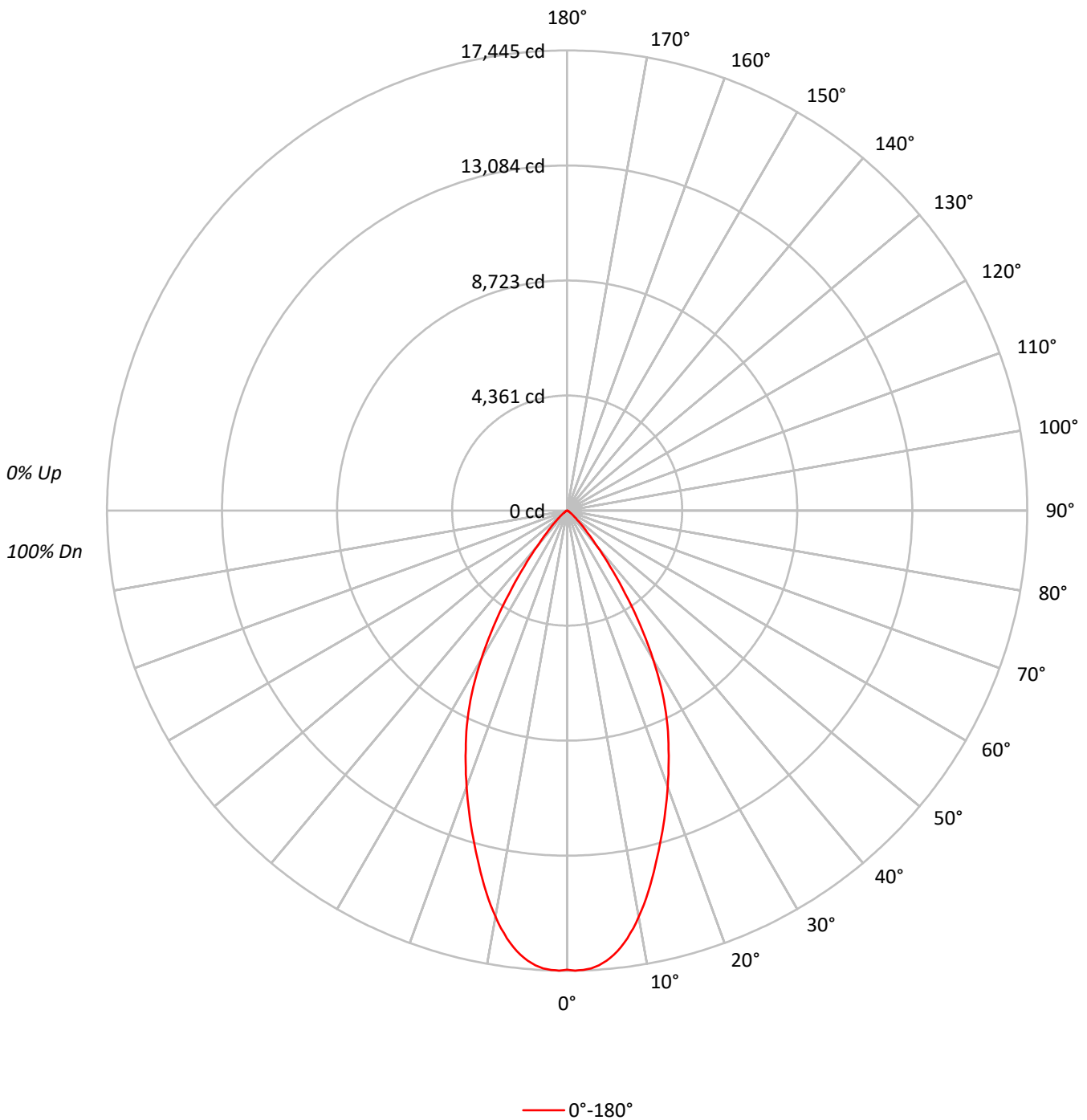
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	536879
5°	530287
10°	489745
15°	427046
20°	365809
25°	306203
30°	232953
35°	144407
40°	71241
45°	33906
50°	16488
55°	8086
60°	5032
65°	3451
70°	1938
75°	1537
80°	1527
85°	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1587.7	12.5
10°-20°	3727.3	29.4
20°-30°	4073.8	32.1
30°-40°	2424.3	19.1
40°-50°	665.0	5.2
50°-60°	150.7	1.2
60°-70°	46.5	0.4
70°-80°	14.2	0.1
80°-90°	4.7	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°	9388.8	74.0
0°-40°	11813.0	93.1
0°-60°	12628.7	99.5
0°-90°	12694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12694.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17411	
5°	17131	###
15°	13377	3727
25°	9000	4074
35°	3836	2424
45°	778	665
55°	150	151
65°	47	47
75°	13	14
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17410.6
1°	17445.0
2°	17423.5
3°	17380.6
4°	17281.8
5°	17131.4
6°	16938.1
7°	16680.4
8°	16379.7
9°	16031.7
10°	15640.8
11°	15224.1
12°	14777.4
13°	14317.7
14°	13840.9
15°	13376.9
16°	12921.6
17°	12474.8
18°	12028.1
19°	11581.3
20°	11147.5
22.5°	10056.3
25°	8999.6
27.5°	7835.4
30°	6542.4
32.5°	5154.9
35°	3836.1
37.5°	2667.7
40°	1769.8
42.5°	1159.9
45°	777.5
47.5°	515.5
50°	343.7
52.5°	210.5
55°	150.4
57.5°	107.4
60°	81.6
62.5°	60.1
65°	47.3
67.5°	30.1
70°	21.5
72.5°	17.2
75°	12.9
77.5°	8.6
80°	8.6



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.3
85°	4.3
87.5°	4.3
90°	0.0

(END OF REPORT)