

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: P250649

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14441.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

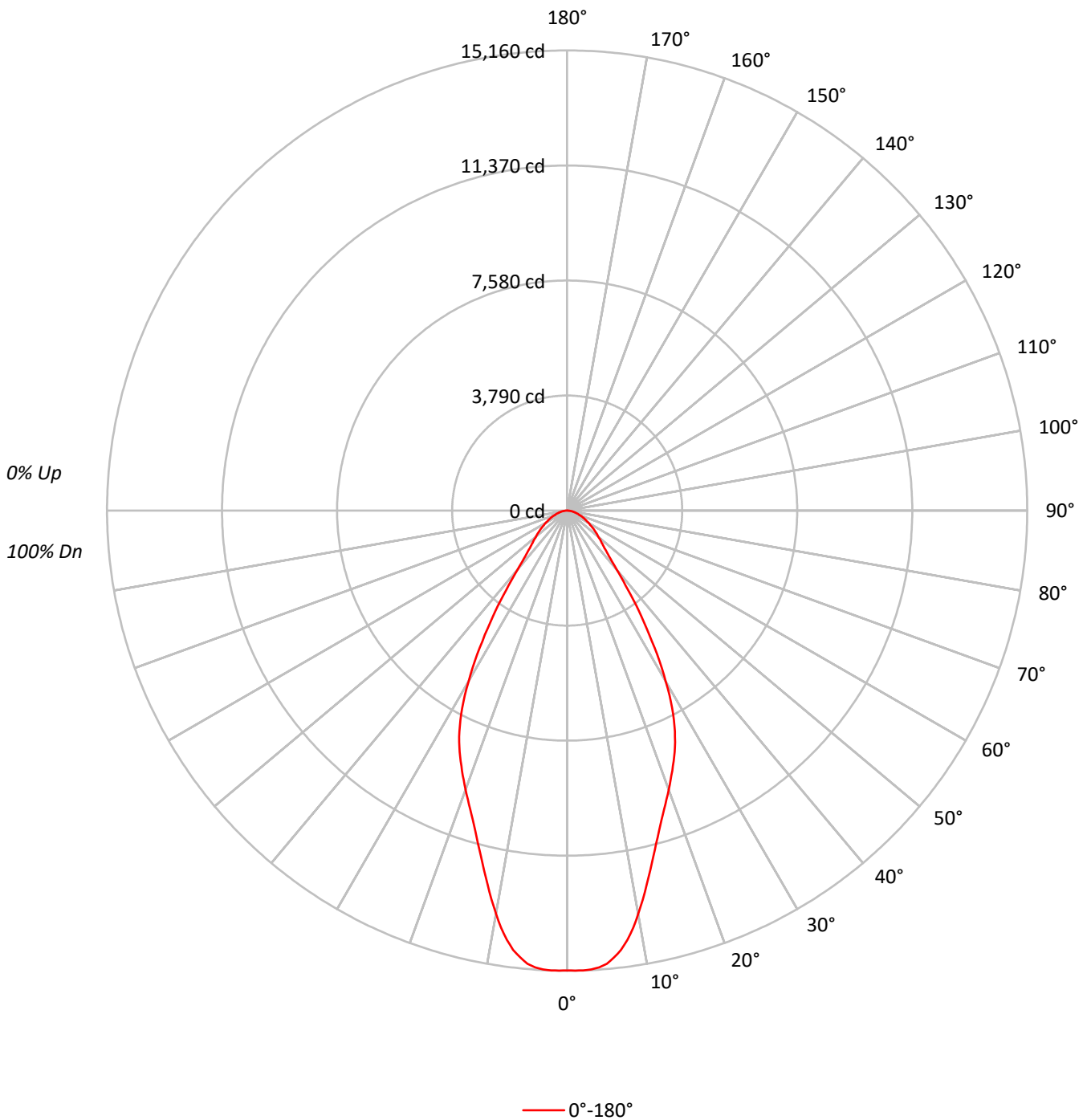
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	467189
5°	463835
10°	422599
15°	362313
20°	321013
25°	286432
30°	231333
35°	160624
40°	101834
45°	75553
50°	64552
55°	56729
60°	50584
65°	45384
70°	39057
75°	35695
80°	33545
85°	29366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1383.0	9.6
10°-20°	3191.2	22.1
20°-30°	3803.4	26.3
30°-40°	2684.7	18.6
40°-50°	1386.5	9.6
50°-60°	951.4	6.6
60°-70°	618.6	4.3
70°-80°	323.8	2.2
80°-90°	98.4	0.7
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°	8377.6	58.0
0°-40°	11062.3	76.6
0°-60°	13400.2	92.8
0°-90°	14441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15151	
5°	14985	###
15°	11349	3191
25°	8418	3803
35°	4267	2685
45°	1732	1386
55°	1055	951
65°	622	619
75°	300	324
85°	83	98
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15150.6
1°	15159.8
2°	15159.8
3°	15136.7
4°	15086.1
5°	14984.6
6°	14805.0
7°	14583.8
8°	14279.6
9°	13911.1
10°	13496.4
11°	13058.6
12°	12602.3
13°	12164.7
14°	11740.7
15°	11349.2
16°	10985.1
17°	10648.7
18°	10344.6
19°	10058.8
20°	9782.4
21°	9510.5
22°	9243.3
23°	8976.1
24°	8704.2
25°	8418.5
26°	8095.9
27°	7745.7
28°	7363.3
29°	6957.9
30°	6496.9
31°	6050.1
32°	5593.8
33°	5123.9
34°	4690.7
35°	4266.9
37.5°	3285.4
40°	2529.8
42.5°	2036.7
45°	1732.5
47.5°	1515.9
50°	1345.6
52.5°	1198.1
55°	1055.2
57.5°	926.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	820.2
62.5°	714.3
65°	622.0
67.5°	539.1
70°	433.2
72.5°	373.3
75°	299.6
77.5°	244.1
80°	188.9
82.5°	138.2
85°	83.0
87.5°	46.0
90°	0.0

(END OF REPORT)