

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: P250103

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150950 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13482.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

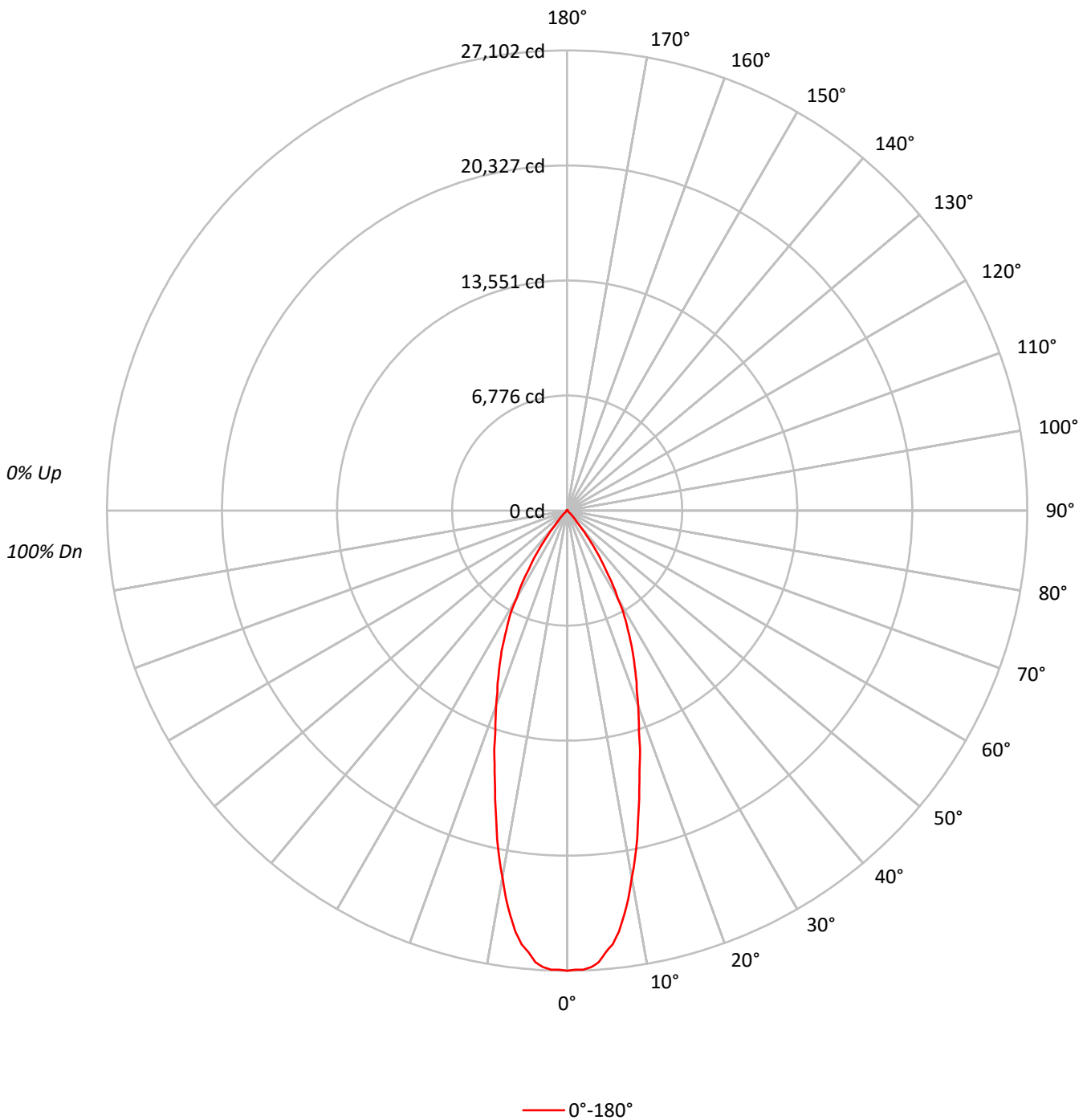
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	835729
5°	808196
10°	687317
15°	524590
20°	400918
25°	310681
30°	211899
35°	124493
40°	38068
45°	14975
50°	225
55°	253
60°	290
65°	686
70°	1280
75°	1120
80°	835
85°	5024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2367.0	17.6
10°-20°	4586.7	34.0
20°-30°	4129.5	30.6
30°-40°	2043.1	15.2
40°-50°	310.8	2.3
50°-60°	12.8	0.1
60°-70°	16.4	0.1
70°-80°	6.2	0.0
80°-90°	9.6	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°	11083.1	82.2
0°-40°	13126.2	97.4
0°-60°	13449.7	99.8
0°-90°	13482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13482.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27102	
5°	26110	###
15°	16432	4587
25°	9131	4129
35°	3307	2043
45°	343	311
55°	5	13
65°	9	16
75°	9	6
85°	14	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	27102.1
1°	27045.7
2°	27059.6
3°	26923.2
4°	26674.0
5°	26109.5
6°	25676.6
7°	24989.9
8°	24067.8
9°	23108.0
10°	21950.6
11°	20915.8
12°	19805.6
13°	18577.7
14°	17519.2
15°	16432.4
16°	15505.6
17°	14687.2
18°	13680.4
19°	12941.7
20°	12217.4
21°	11464.6
22°	10914.2
23°	10274.4
24°	9686.3
25°	9131.2
26°	8477.2
27°	7889.3
28°	7362.3
29°	6783.7
30°	5951.1
31°	5480.7
32°	4887.9
33°	4238.6
34°	3744.7
35°	3307.1
37.5°	2093.4
40°	945.7
42.5°	644.5
45°	343.4
47.5°	192.8
50°	4.7
52.5°	18.9
55°	4.7
57.5°	28.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	4.7
62.5°	23.6
65°	9.4
67.5°	23.6
70°	14.2
72.5°	4.7
75°	9.4
77.5°	0.0
80°	4.7
82.5°	18.9
85°	14.2
87.5°	0.0
90°	0.0

(END OF REPORT)