

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: P250040

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250040
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 EC8B150827 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13716.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

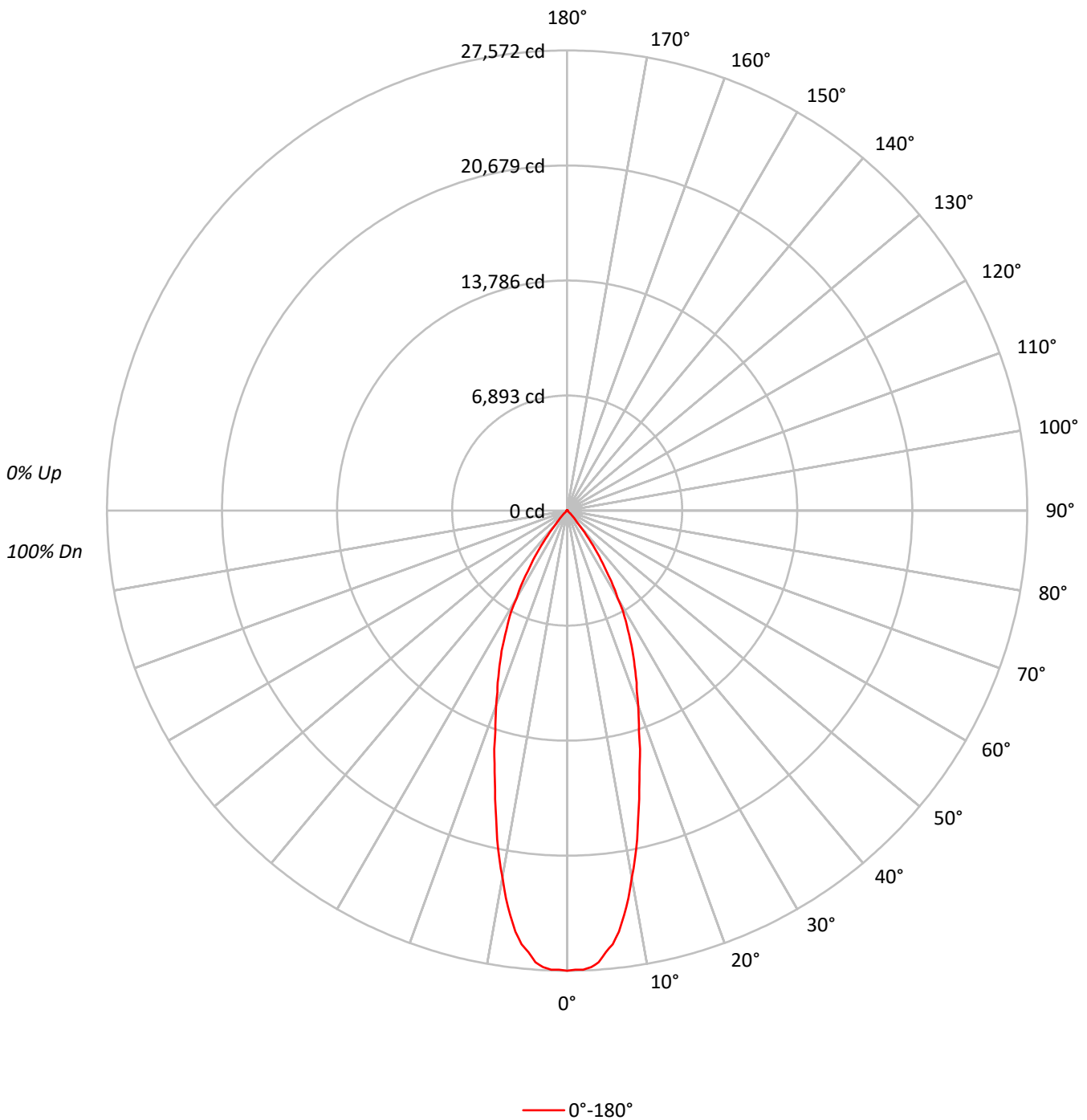
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	850234
5°	822221
10°	699247
15°	533694
20°	407875
25°	316074
30°	215574
35°	126654
40°	38728
45°	15233
50°	230
55°	258
60°	296
65°	700
70°	1298
75°	1144
80°	852
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2408.1	17.6
10°-20°	4666.3	34.0
20°-30°	4201.1	30.6
30°-40°	2078.5	15.2
40°-50°	316.2	2.3
50°-60°	13.0	0.1
60°-70°	16.7	0.1
70°-80°	6.3	0.0
80°-90°	9.8	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°	11275.5	82.2
0°-40°	13354.0	97.4
0°-60°	13683.2	99.8
0°-90°	13716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13716.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27572	
5°	26563	###
15°	16718	4666
25°	9290	4201
35°	3364	2079
45°	349	316
55°	5	13
65°	10	17
75°	10	6
85°	14	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	27572.5
1°	27515.1
2°	27529.3
3°	27390.5
4°	27137.0
5°	26562.6
6°	26122.3
7°	25423.6
8°	24485.5
9°	23509.1
10°	22331.6
11°	21278.8
12°	20149.3
13°	18900.1
14°	17823.3
15°	16717.6
16°	15774.8
17°	14942.1
18°	13917.8
19°	13166.3
20°	12429.4
21°	11663.5
22°	11103.6
23°	10452.7
24°	9854.4
25°	9289.7
26°	8624.4
27°	8026.3
28°	7490.1
29°	6901.4
30°	6054.3
31°	5575.8
32°	4972.7
33°	4312.2
34°	3809.7
35°	3364.5
37.5°	2129.7
40°	962.1
42.5°	655.7
45°	349.3
47.5°	196.2
50°	4.8
52.5°	19.2
55°	4.8
57.5°	28.8



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CANDELA DISTRIBUTION (continued):

	0°
60°	4.8
62.5°	24.0
65°	9.6
67.5°	24.0
70°	14.4
72.5°	4.8
75°	9.6
77.5°	0.0
80°	4.8
82.5°	19.2
85°	14.4
87.5°	0.0
90°	0.0

(END OF REPORT)