

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: P250096

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250096
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 EC8B150940 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13022.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

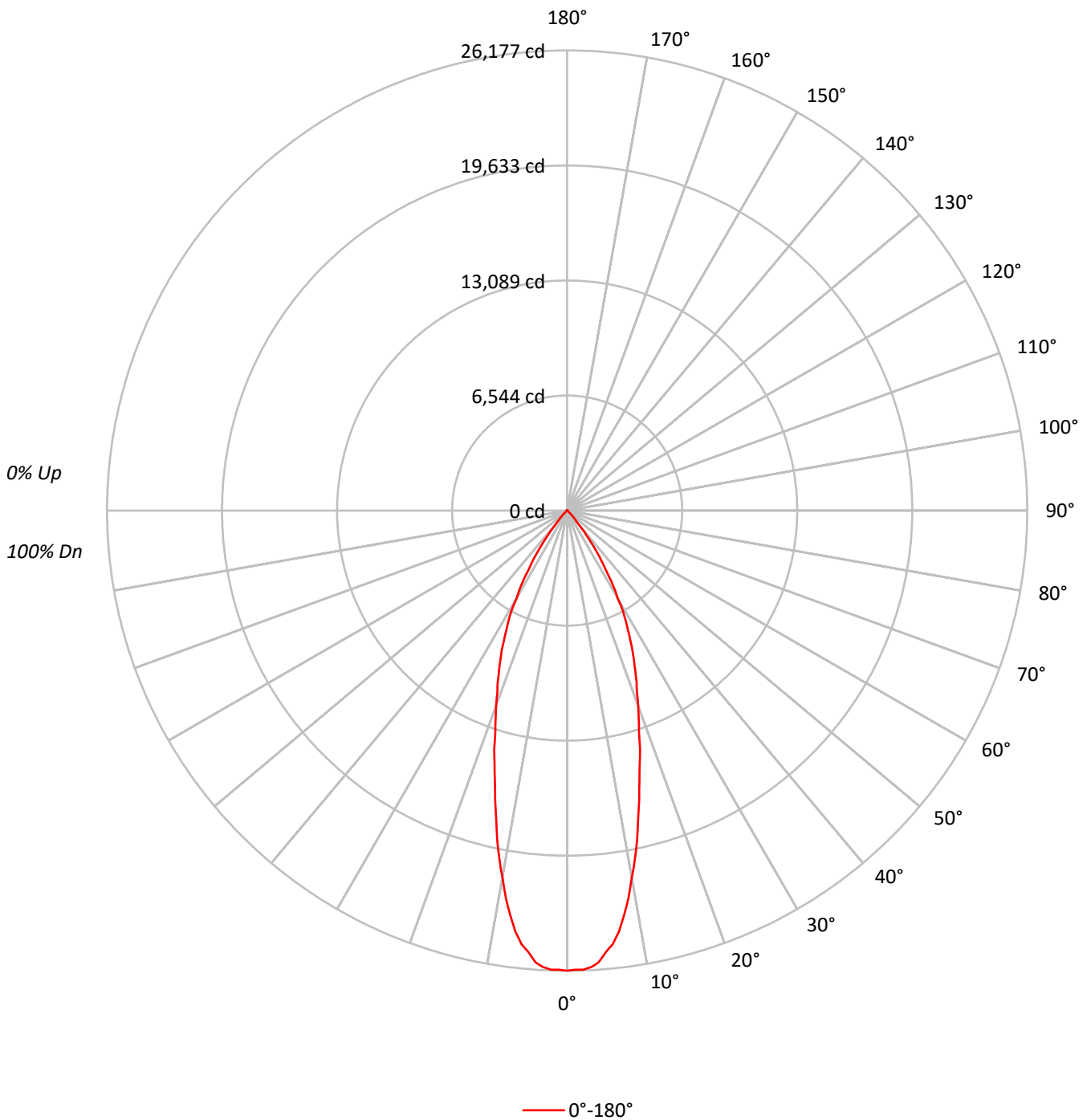
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	807215
5°	780619
10°	663868
15°	506690
20°	387237
25°	300079
30°	204667
35°	120247
40°	36768
45°	14465
50°	221
55°	247
60°	284
65°	664
70°	1235
75°	1084
80°	817
85°	4847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2286.2	17.6
10°-20°	4430.2	34.0
20°-30°	3988.6	30.6
30°-40°	1973.4	15.2
40°-50°	300.2	2.3
50°-60°	12.3	0.1
60°-70°	15.9	0.1
70°-80°	6.0	0.0
80°-90°	9.3	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°	10704.9	82.2
0°-40°	12678.3	97.4
0°-60°	12990.8	99.8
0°-90°	13022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13022.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26177	
5°	25219	###
15°	15872	4430
25°	8820	3989
35°	3194	1973
45°	332	300
55°	5	12
65°	9	16
75°	9	6
85°	14	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	26177.4
1°	26122.9
2°	26136.4
3°	26004.6
4°	25763.9
5°	25218.6
6°	24800.6
7°	24137.2
8°	23246.6
9°	22319.6
10°	21201.7
11°	20202.1
12°	19129.8
13°	17943.8
14°	16921.5
15°	15871.7
16°	14976.6
17°	14186.0
18°	13213.6
19°	12500.1
20°	11800.5
21°	11073.4
22°	10541.8
23°	9923.8
24°	9355.8
25°	8819.6
26°	8188.0
27°	7620.2
28°	7111.1
29°	6552.2
30°	5748.0
31°	5293.7
32°	4721.1
33°	4094.0
34°	3616.9
35°	3194.3
37.5°	2021.9
40°	913.4
42.5°	622.5
45°	331.7
47.5°	186.2
50°	4.6
52.5°	18.2
55°	4.6
57.5°	27.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	4.6
62.5°	22.8
65°	9.1
67.5°	22.8
70°	13.7
72.5°	4.6
75°	9.1
77.5°	0.0
80°	4.6
82.5°	18.2
85°	13.7
87.5°	0.0
90°	0.0

(END OF REPORT)