

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: P250703

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250703
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: LSR8B100D010 EC8B100930 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8302.2 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

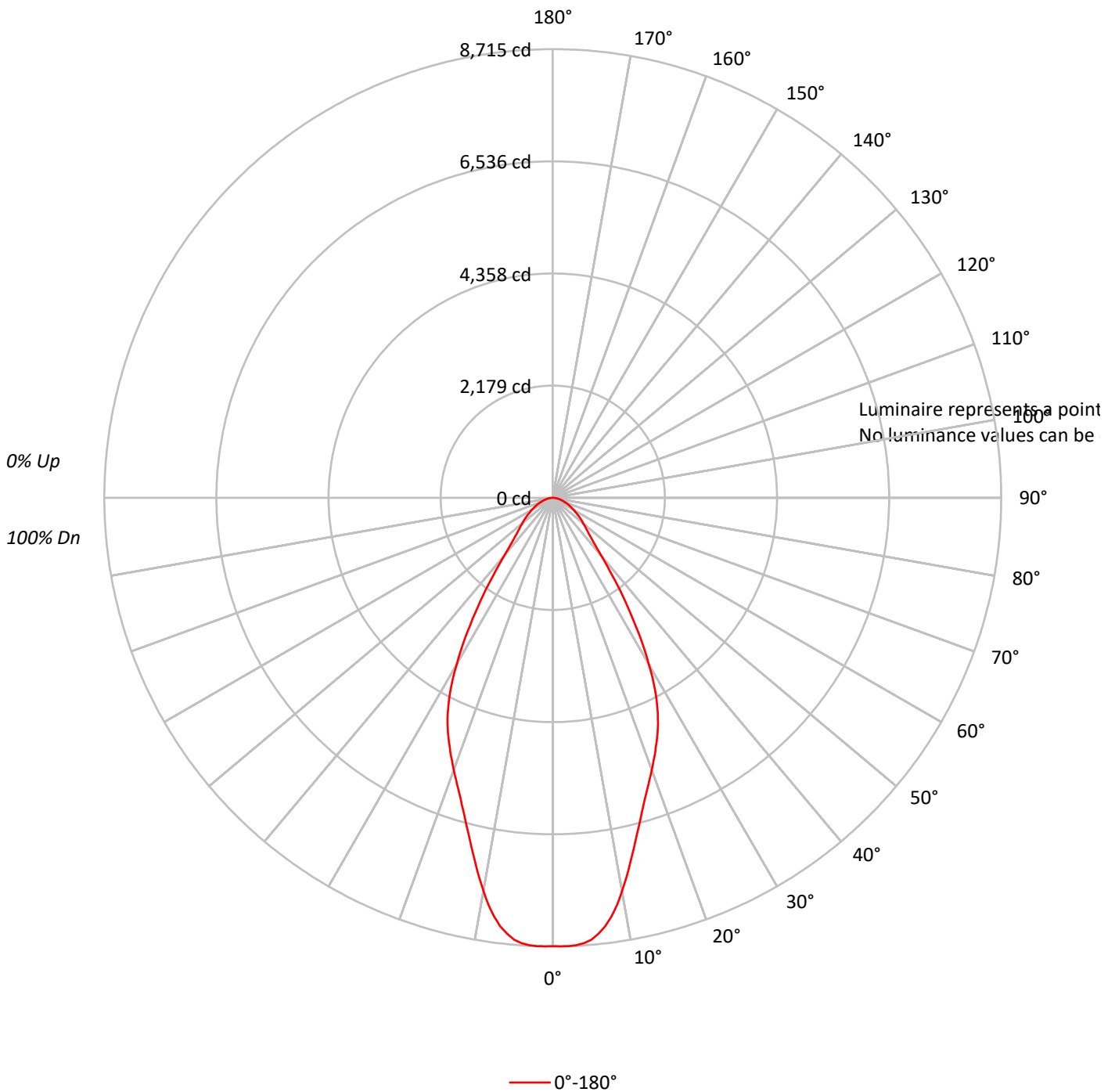
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.1	9.6
10°-20°	1834.6	22.1
20°-30°	2186.6	26.3
30°-40°	1543.5	18.6
40°-50°	797.1	9.6
50°-60°	547.0	6.6
60°-70°	355.6	4.3
70°-80°	186.2	2.2
80°-90°	56.6	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°	4816.3	58.0
0°-40°	6359.7	76.6
0°-60°	7703.8	92.8
0°-90°	8302.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8302.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8710	
5°	8615	795
15°	6525	1835
25°	4840	2187
35°	2453	1543
45°	996	797
55°	607	547
65°	358	356
75°	172	186
85°	48	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8710.1
1°	8715.3
2°	8715.3
3°	8702.1
4°	8673.0
5°	8614.7
6°	8511.4
7°	8384.2
8°	8209.3
9°	7997.4
10°	7759.1
11°	7507.3
12°	7245.0
13°	6993.5
14°	6749.8
15°	6524.7
16°	6315.3
17°	6122.0
18°	5947.1
19°	5782.8
20°	5623.8
21°	5467.6
22°	5314.0
23°	5160.3
24°	5004.0
25°	4839.8
26°	4654.3
27°	4452.9
28°	4233.1
29°	4000.1
30°	3735.1
31°	3478.2
32°	3215.9
33°	2945.7
34°	2696.7
35°	2453.1
37.5°	1888.8
40°	1454.4
42.5°	1170.9
45°	996.0
47.5°	871.5
50°	773.6
52.5°	688.7
55°	606.7
57.5°	532.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	471.5
62.5°	410.6
65°	357.6
67.5°	310.0
70°	249.1
72.5°	214.7
75°	172.2
77.5°	140.3
80°	108.6
82.5°	79.5
85°	47.8
87.5°	26.5
90°	0.0

(END OF REPORT)