

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: P250023

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909727 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5783.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

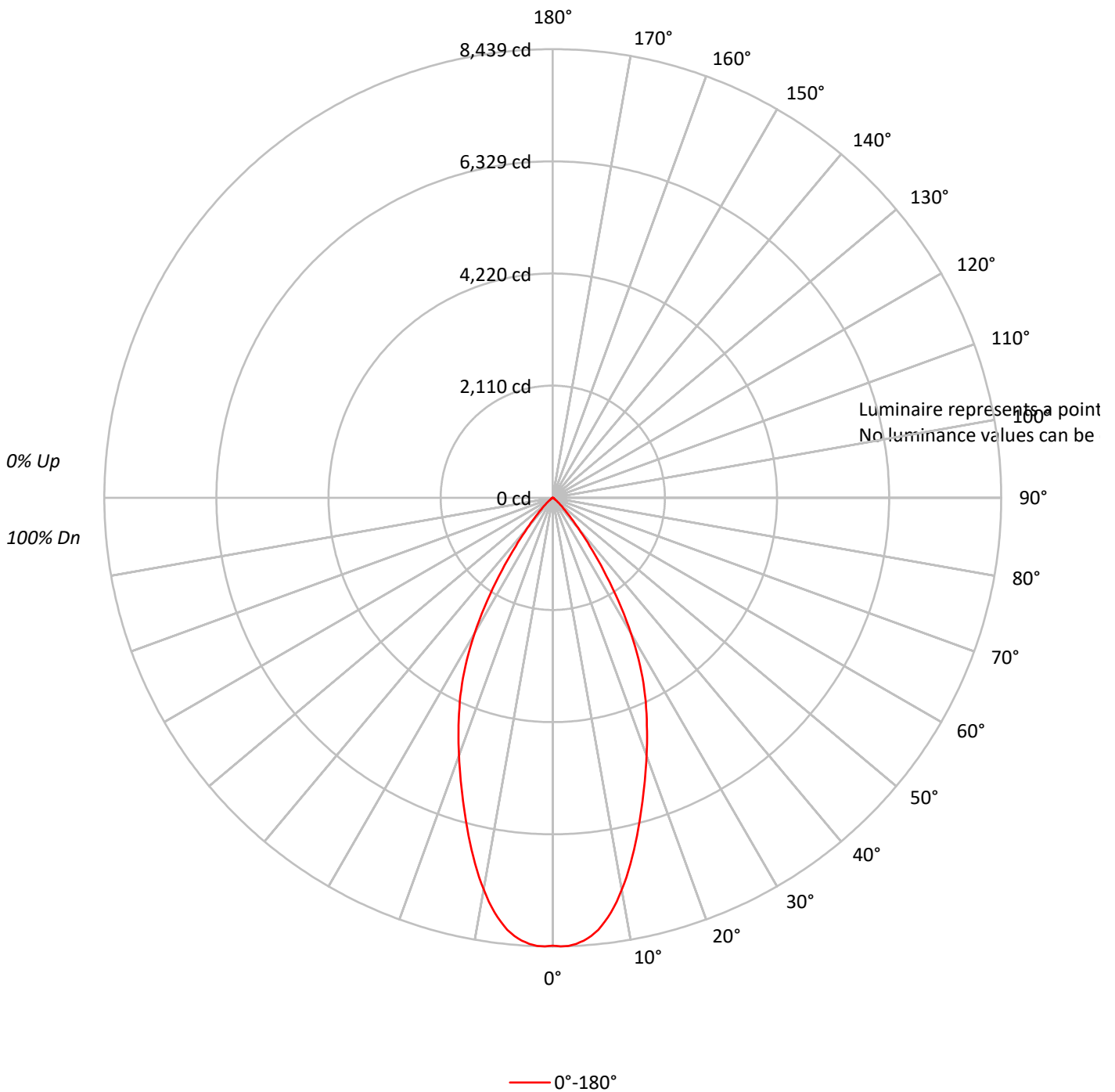
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.5	13.2
10°-20°	1754.0	30.3
20°-30°	1863.5	32.2
30°-40°	1063.2	18.4
40°-50°	263.6	4.6
50°-60°	51.8	0.9
60°-70°	15.6	0.3
70°-80°	3.7	0.1
80°-90°	3.0	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°	4382.0	75.8
0°-40°	5445.2	94.2
0°-60°	5760.7	99.6
0°-90°	5783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5783.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8423	
5°	8274	764
15°	6302	1754
25°	4114	1863
35°	1662	1063
45°	298	264
55°	48	52
65°	12	16
75°	0	4
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8423.1
1°	8439.2
2°	8433.2
3°	8403.0
4°	8350.7
5°	8274.1
6°	8173.6
7°	8034.6
8°	7875.6
9°	7688.5
10°	7483.1
11°	7265.9
12°	7032.3
13°	6794.8
14°	6551.3
15°	6301.7
16°	6066.2
17°	5828.8
18°	5605.3
19°	5377.9
20°	5162.6
22.5°	4629.1
25°	4113.9
27.5°	3560.5
30°	2948.6
32.5°	2292.4
35°	1662.5
37.5°	1145.2
40°	740.7
42.5°	469.0
45°	297.9
47.5°	195.3
50°	122.8
52.5°	74.5
55°	48.3
57.5°	38.3
60°	24.1
62.5°	22.1
65°	12.1
67.5°	12.1
70°	10.1
72.5°	6.1
75°	0.0
77.5°	2.0
80°	2.0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.0
85°	4.0
87.5°	2.0
90°	0.0

(END OF REPORT)