

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: P250107

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250107
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: LSR8B90D010 EC8B90927 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6861.4 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

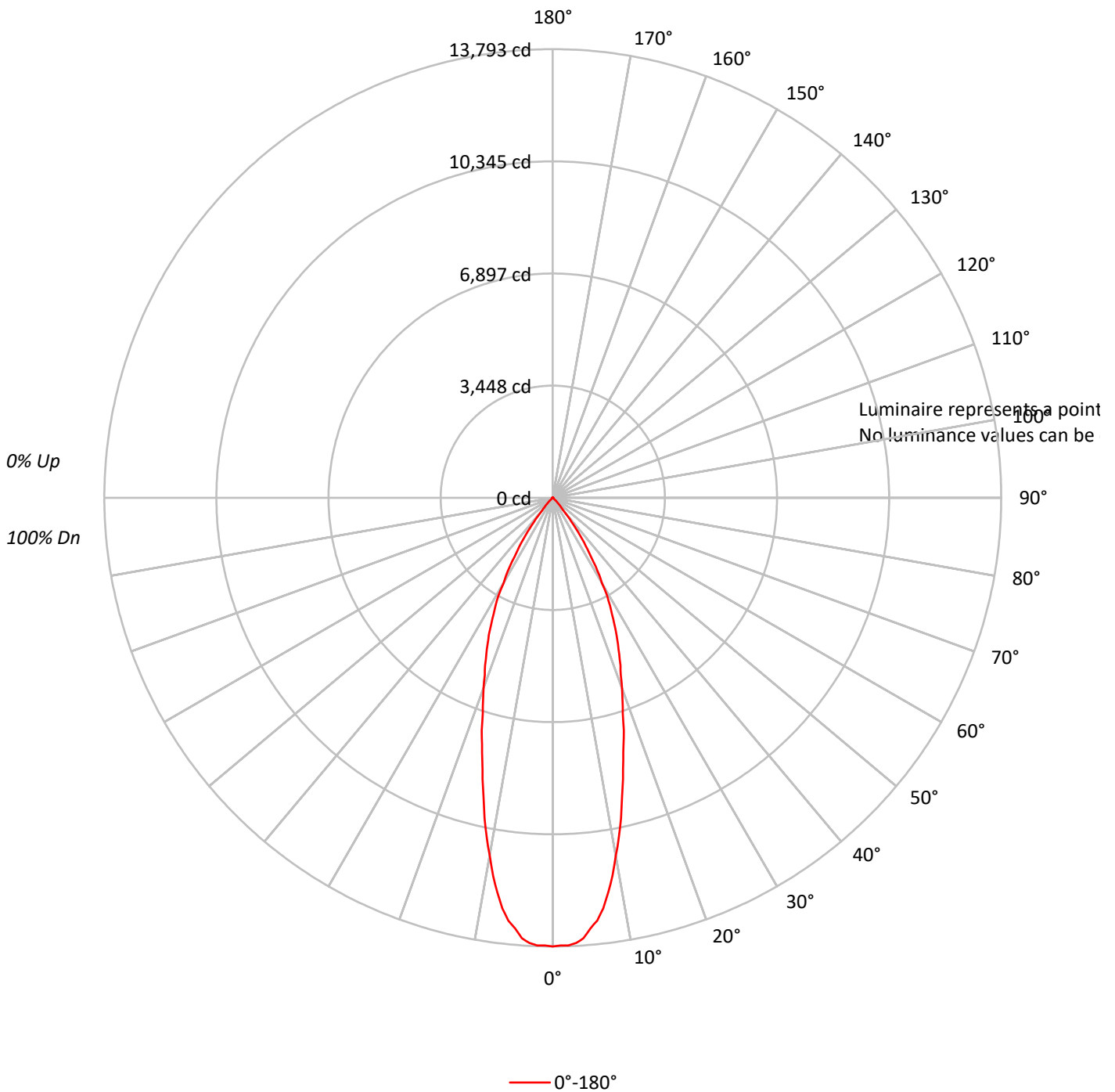
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.6	17.6
10°-20°	2334.3	34.0
20°-30°	2101.6	30.6
30°-40°	1039.8	15.2
40°-50°	158.2	2.3
50°-60°	6.5	0.1
60°-70°	8.4	0.1
70°-80°	3.2	0.0
80°-90°	4.9	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°	5640.5	82.2
0°-40°	6680.3	97.4
0°-60°	6844.9	99.8
0°-90°	6861.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6861.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13793	
5°	13288	###
15°	8363	2334
25°	4647	2102
35°	1683	1040
45°	175	158
55°	2	6
65°	5	8
75°	5	3
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13793.1
1°	13764.4
2°	13771.5
3°	13702.0
4°	13575.2
5°	13287.8
6°	13067.6
7°	12718.0
8°	12248.8
9°	11760.3
10°	11171.4
11°	10644.6
12°	10079.7
13°	9454.7
14°	8916.1
15°	8362.9
16°	7891.3
17°	7474.7
18°	6962.3
19°	6586.4
20°	6217.8
21°	5834.6
22°	5554.6
23°	5228.9
24°	4929.6
25°	4647.2
26°	4314.3
27°	4015.1
28°	3746.9
29°	3452.4
30°	3028.6
31°	2789.3
32°	2487.6
33°	2157.2
34°	1905.8
35°	1683.1
37.5°	1065.4
40°	481.3
42.5°	328.0
45°	174.7
47.5°	98.1
50°	2.4
52.5°	9.6
55°	2.4
57.5°	14.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.4
62.5°	12.0
65°	4.8
67.5°	12.0
70°	7.2
72.5°	2.4
75°	4.8
77.5°	0.0
80°	2.4
82.5°	9.6
85°	7.2
87.5°	0.0
90°	0.0

(END OF REPORT)