

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: P250058

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250058
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 EC8B90840 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8701.9 lumens
Efficiency: N/A
Efficacy: 101.1 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

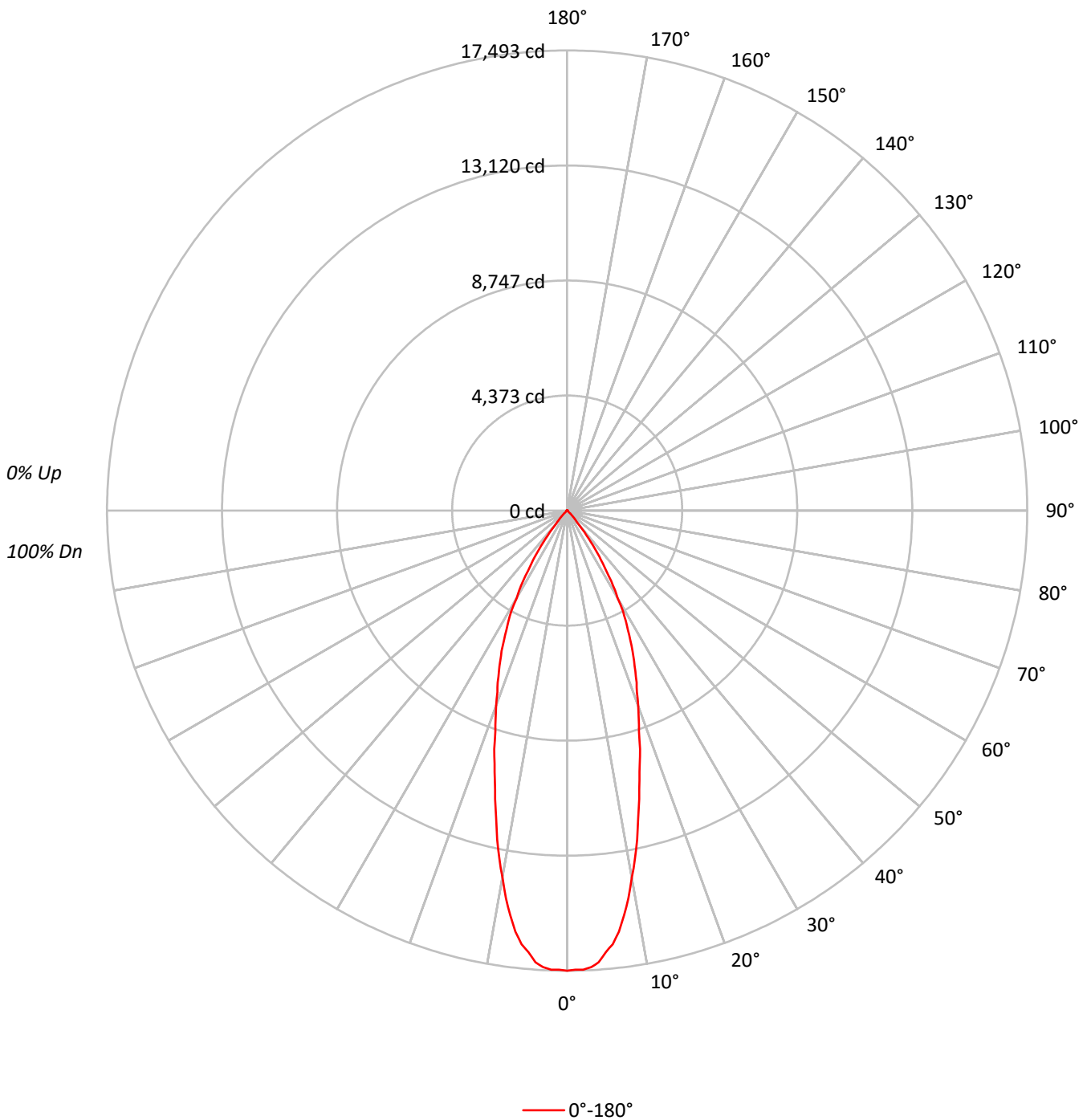
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):

	0°
0°	539423
5°	521651
10°	443632
15°	338600
20°	258775
25°	200531
30°	136769
35°	80355
40°	24571
45°	9664
50°	144
55°	161
60°	185
65°	445
70°	820
75°	727
80°	533
85°	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1527.8	17.6
10°-20°	2960.5	34.0
20°-30°	2665.4	30.6
30°-40°	1318.7	15.2
40°-50°	200.6	2.3
50°-60°	8.2	0.1
60°-70°	10.6	0.1
70°-80°	4.0	0.0
80°-90°	6.2	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°	7153.6	82.2
0°-40°	8472.3	97.4
0°-60°	8681.2	99.8
0°-90°	8701.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8701.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17493	
5°	16852	###
15°	10606	2960
25°	5894	2665
35°	2135	1319
45°	222	201
55°	3	8
65°	6	11
75°	6	4
85°	9	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	17493.1
1°	17456.7
2°	17465.7
3°	17377.7
4°	17216.8
5°	16852.4
6°	16573.1
7°	16129.8
8°	15534.6
9°	14915.1
10°	14168.1
11°	13500.1
12°	12783.6
13°	11991.0
14°	11307.8
15°	10606.4
16°	10008.2
17°	9479.9
18°	8830.0
19°	8353.3
20°	7885.8
21°	7399.8
22°	7044.6
23°	6631.6
24°	6252.0
25°	5893.8
26°	5471.7
27°	5092.2
28°	4752.1
29°	4378.5
30°	3841.1
31°	3537.5
32°	3154.9
33°	2735.8
34°	2417.0
35°	2134.6
37.5°	1351.2
40°	610.4
42.5°	416.0
45°	221.6
47.5°	124.5
50°	3.0
52.5°	12.2
55°	3.0
57.5°	18.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.0
62.5°	15.2
65°	6.1
67.5°	15.2
70°	9.1
72.5°	3.0
75°	6.1
77.5°	0.0
80°	3.0
82.5°	12.2
85°	9.1
87.5°	0.0
90°	0.0

(END OF REPORT)