

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: P250044

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250044
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 EC8B90830 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8422.9 lumens
Efficiency: N/A
Efficacy: 97.8 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

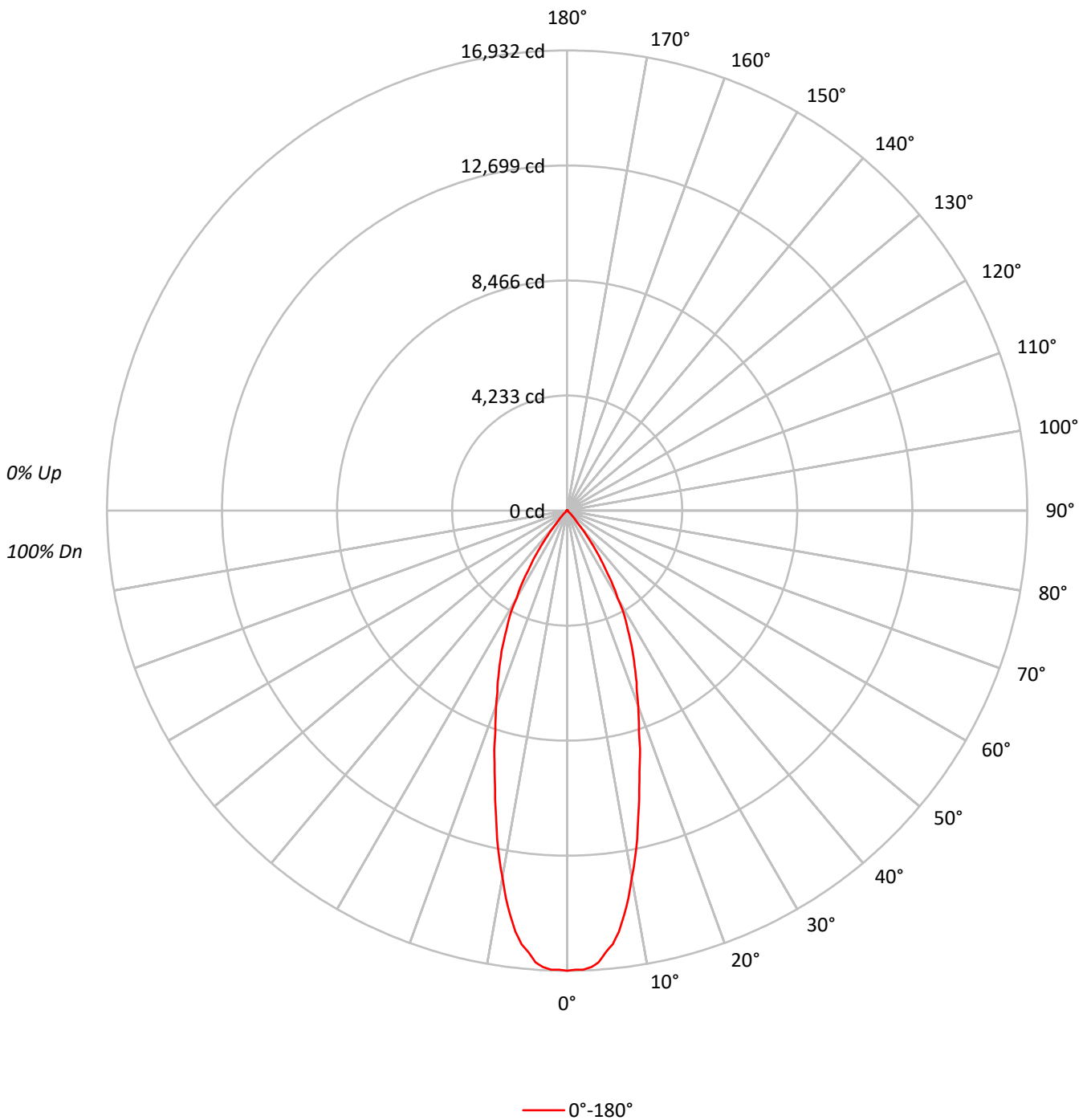
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	522130
5°	504926
10°	429410
15°	327742
20°	250476
25°	194101
30°	132386
35°	77780
40°	23782
45°	9354
50°	139
55°	156
60°	179
65°	430
70°	793
75°	703
80°	515
85°	3114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1478.8	17.6
10°-20°	2865.5	34.0
20°-30°	2579.9	30.6
30°-40°	1276.4	15.2
40°-50°	194.2	2.3
50°-60°	8.0	0.1
60°-70°	10.2	0.1
70°-80°	3.9	0.0
80°-90°	6.0	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°	6924.3	82.2
0°-40°	8200.7	97.4
0°-60°	8402.8	99.8
0°-90°	8422.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8422.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16932	
5°	16312	###
15°	10266	2866
25°	5705	2580
35°	2066	1276
45°	214	194
55°	3	8
65°	6	10
75°	6	4
85°	9	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16932.3
1°	16897.0
2°	16905.7
3°	16820.5
4°	16664.8
5°	16312.1
6°	16041.7
7°	15612.6
8°	15036.6
9°	14436.9
10°	13713.9
11°	13067.3
12°	12373.7
13°	11606.6
14°	10945.3
15°	10266.3
16°	9687.3
17°	9175.9
18°	8546.9
19°	8085.4
20°	7632.9
21°	7162.6
22°	6818.7
23°	6419.0
24°	6051.6
25°	5704.8
26°	5296.2
27°	4928.9
28°	4599.7
29°	4238.2
30°	3718.0
31°	3424.1
32°	3053.7
33°	2648.1
34°	2339.5
35°	2066.2
37.5°	1307.8
40°	590.8
42.5°	402.7
45°	214.5
47.5°	120.5
50°	2.9
52.5°	11.8
55°	2.9
57.5°	17.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.9
62.5°	14.7
65°	5.9
67.5°	14.7
70°	8.8
72.5°	2.9
75°	5.9
77.5°	0.0
80°	2.9
82.5°	11.8
85°	8.8
87.5°	0.0
90°	0.0

(END OF REPORT)