

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: P250086

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250086
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 EC8B90935 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7469.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

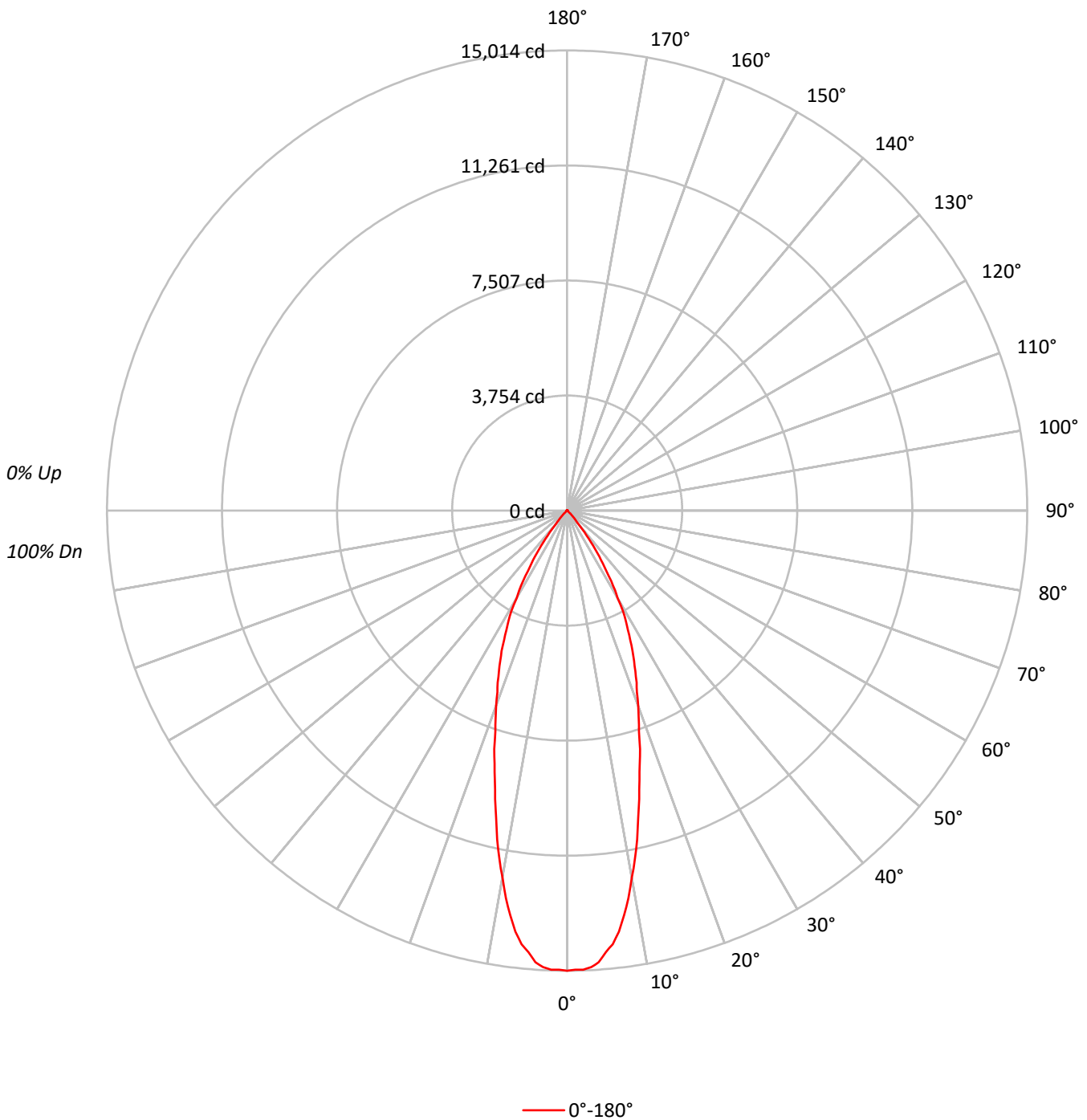
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	462992
5°	447739
10°	380773
15°	290621
20°	222107
25°	172118
30°	117392
35°	68968
40°	21089
45°	8294
50°	125
55°	140
60°	160
65°	379
70°	703
75°	620
80°	462
85°	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1311.3	17.6
10°-20°	2541.0	34.0
20°-30°	2287.7	30.6
30°-40°	1131.9	15.2
40°-50°	172.2	2.3
50°-60°	7.1	0.1
60°-70°	9.1	0.1
70°-80°	3.4	0.0
80°-90°	5.3	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°	6140.0	82.2
0°-40°	7271.9	97.4
0°-60°	7451.1	99.8
0°-90°	7469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7469.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15014	
5°	14465	###
15°	9104	2541
25°	5059	2288
35°	1832	1132
45°	190	172
55°	3	7
65°	5	9
75°	5	3
85°	8	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15014.5
1°	14983.3
2°	14991.0
3°	14915.4
4°	14777.3
5°	14464.6
6°	14224.8
7°	13844.3
8°	13333.5
9°	12801.8
10°	12160.6
11°	11587.3
12°	10972.3
13°	10292.0
14°	9705.6
15°	9103.5
16°	8590.1
17°	8136.7
18°	7578.9
19°	7169.7
20°	6768.4
21°	6351.3
22°	6046.4
23°	5692.0
24°	5366.2
25°	5058.7
26°	4696.4
27°	4370.7
28°	4078.7
29°	3758.1
30°	3296.9
31°	3036.3
32°	2707.9
33°	2348.2
34°	2074.5
35°	1832.1
37.5°	1159.7
40°	523.9
42.5°	357.1
45°	190.2
47.5°	106.8
50°	2.6
52.5°	10.5
55°	2.6
57.5°	15.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.6
62.5°	13.1
65°	5.2
67.5°	13.1
70°	7.8
72.5°	2.6
75°	5.2
77.5°	0.0
80°	2.6
82.5°	10.5
85°	7.8
87.5°	0.0
90°	0.0

(END OF REPORT)