

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: P250099

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250099
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: LSR8B80D010 EC8B80950 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7170.9 lumens
Efficiency: N/A
Efficacy: 96.4 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

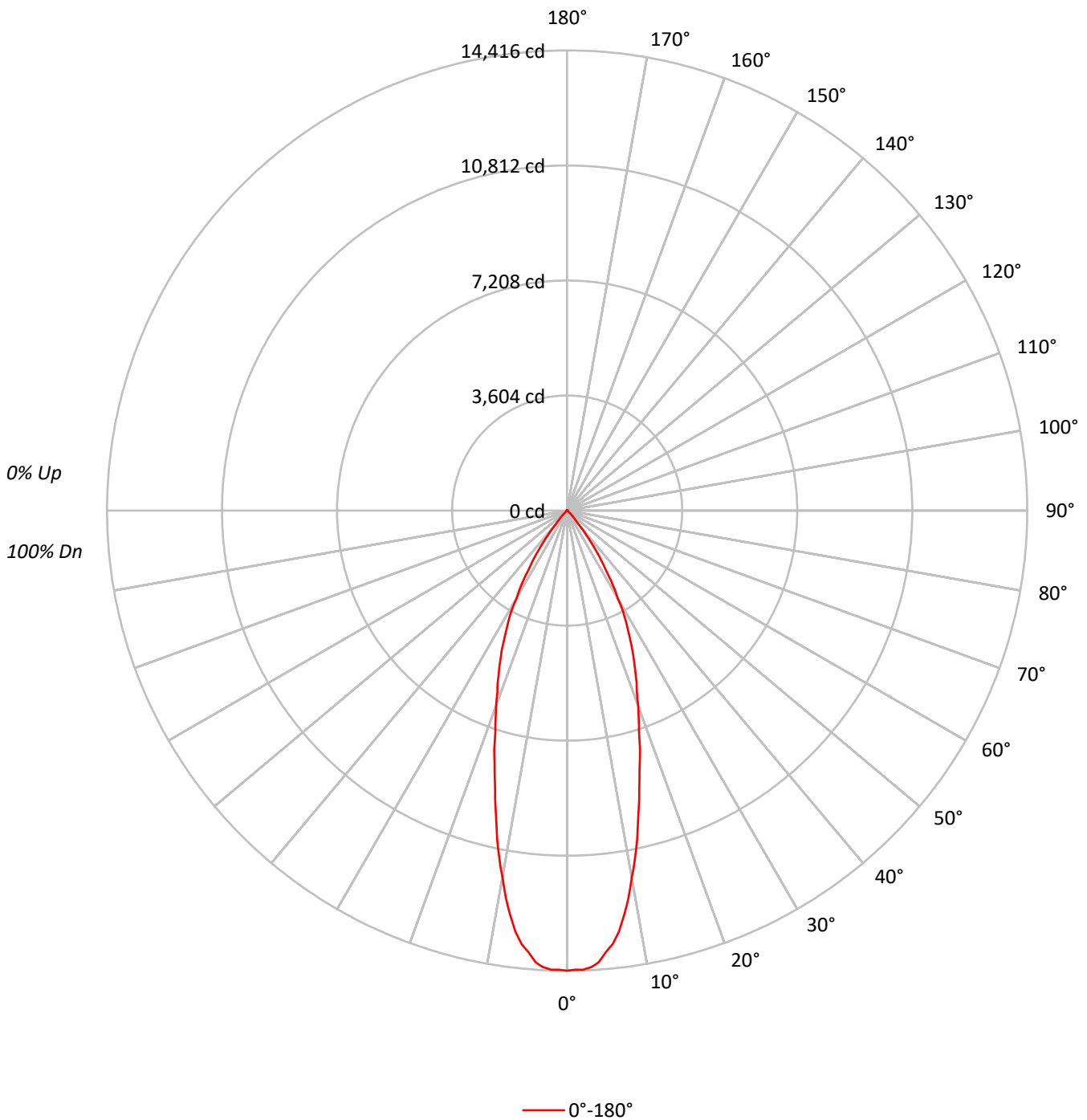
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	444521
5°	429875
10°	365580
15°	279026
20°	213247
25°	165248
30°	112706
35°	66216
40°	20248
45°	7963
50°	120
55°	134
60°	154
65°	365
70°	676
75°	596
80°	444
85°	2654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.0	17.6
10°-20°	2439.6	34.0
20°-30°	2196.4	30.6
30°-40°	1086.7	15.2
40°-50°	165.3	2.3
50°-60°	6.8	0.1
60°-70°	8.7	0.1
70°-80°	3.3	0.0
80°-90°	5.1	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°	5895.0	82.2
0°-40°	6981.7	97.4
0°-60°	7153.8	99.8
0°-90°	7170.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7170.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14416	
5°	13888	###
15°	8740	2440
25°	4857	2196
35°	1759	1087
45°	183	165
55°	2	7
65°	5	9
75°	5	3
85°	8	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14415.5
1°	14385.4
2°	14392.9
3°	14320.3
4°	14187.7
5°	13887.5
6°	13657.3
7°	13292.0
8°	12801.5
9°	12291.0
10°	11675.4
11°	11125.0
12°	10534.5
13°	9881.4
14°	9318.4
15°	8740.3
16°	8247.4
17°	7812.0
18°	7276.5
19°	6883.6
20°	6498.4
21°	6097.9
22°	5805.2
23°	5464.9
24°	5152.1
25°	4856.8
26°	4509.0
27°	4196.3
28°	3916.0
29°	3608.2
30°	3165.3
31°	2915.1
32°	2599.8
33°	2254.5
34°	1991.8
35°	1759.0
37.5°	1113.4
40°	503.0
42.5°	342.8
45°	182.6
47.5°	102.6
50°	2.5
52.5°	10.0
55°	2.5
57.5°	15.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.5
62.5°	12.5
65°	5.0
67.5°	12.5
70°	7.5
72.5°	2.5
75°	5.0
77.5°	0.0
80°	2.5
82.5°	10.0
85°	7.5
87.5°	0.0
90°	0.0

(END OF REPORT)