

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: P250106

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250106
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 EC8B809727 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: 5415.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

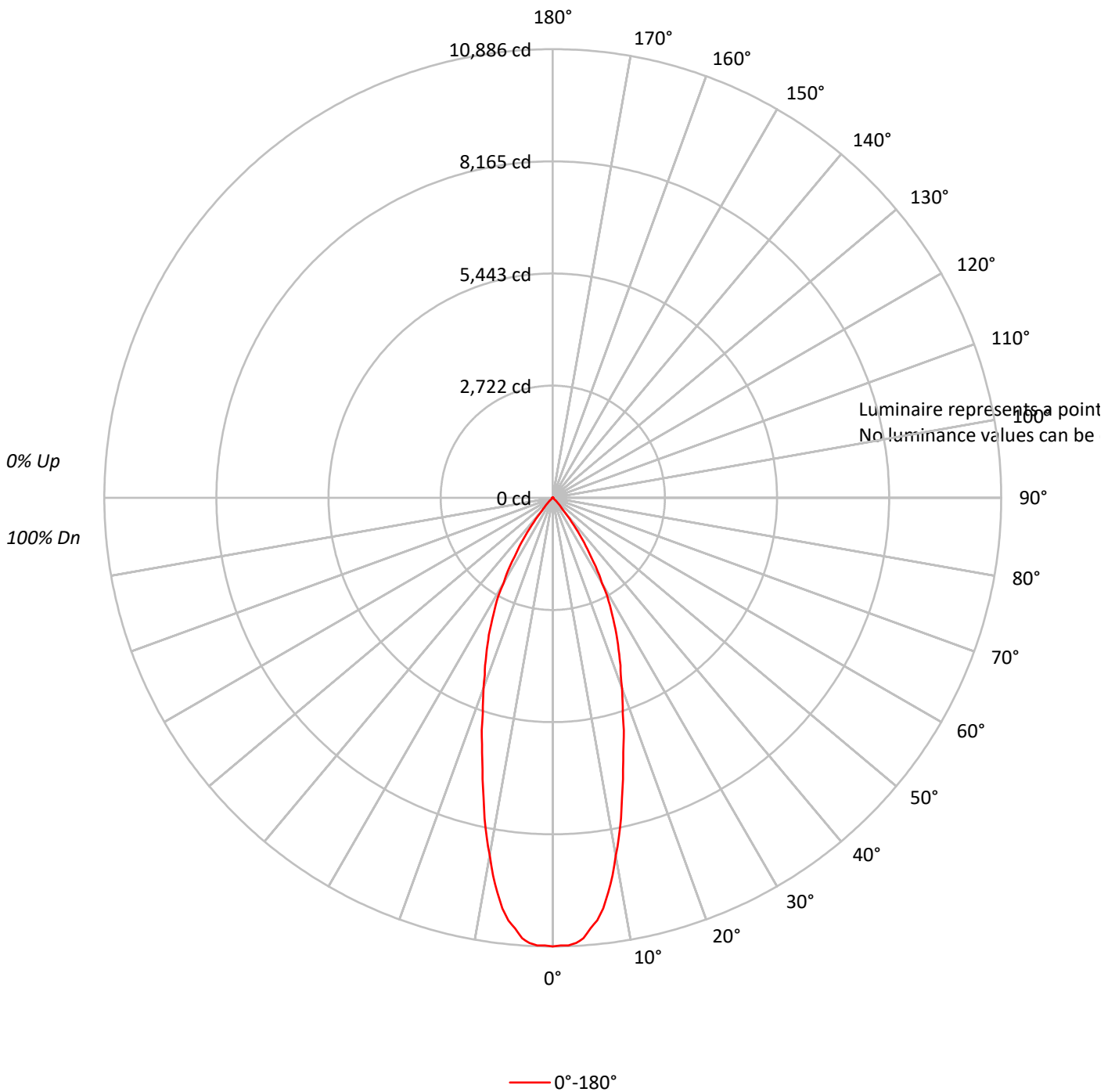
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	950.7	17.6
10°-20°	1842.2	34.0
20°-30°	1658.6	30.6
30°-40°	820.6	15.2
40°-50°	124.8	2.3
50°-60°	5.1	0.1
60°-70°	6.6	0.1
70°-80°	2.5	0.0
80°-90°	3.9	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°	4451.5	82.2
0°-40°	5272.1	97.4
0°-60°	5402.0	99.8
0°-90°	5415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5415.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10886	
5°	10487	951
15°	6600	1842
25°	3668	1659
35°	1328	821
45°	138	125
55°	2	5
65°	4	7
75°	4	2
85°	6	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10885.5
1°	10862.8
2°	10868.4
3°	10813.6
4°	10713.5
5°	10486.8
6°	10312.9
7°	10037.1
8°	9666.8
9°	9281.2
10°	8816.4
11°	8400.7
12°	7954.8
13°	7461.7
14°	7036.5
15°	6600.0
16°	6227.8
17°	5899.1
18°	5494.7
19°	5198.0
20°	4907.1
21°	4604.7
22°	4383.6
23°	4126.7
24°	3890.5
25°	3667.5
26°	3404.9
27°	3168.7
28°	2957.1
29°	2724.6
30°	2390.2
31°	2201.3
32°	1963.2
33°	1702.4
34°	1504.0
35°	1328.3
37.5°	840.8
40°	379.8
42.5°	258.9
45°	137.9
47.5°	77.4
50°	1.9
52.5°	7.6
55°	1.9
57.5°	11.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	1.9
62.5°	9.5
65°	3.8
67.5°	9.5
70°	5.7
72.5°	1.9
75°	3.8
77.5°	0.0
80°	1.9
82.5°	7.6
85°	5.7
87.5°	0.0
90°	0.0

(END OF REPORT)