

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: P250050

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250050
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 EC8B80835 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7777.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

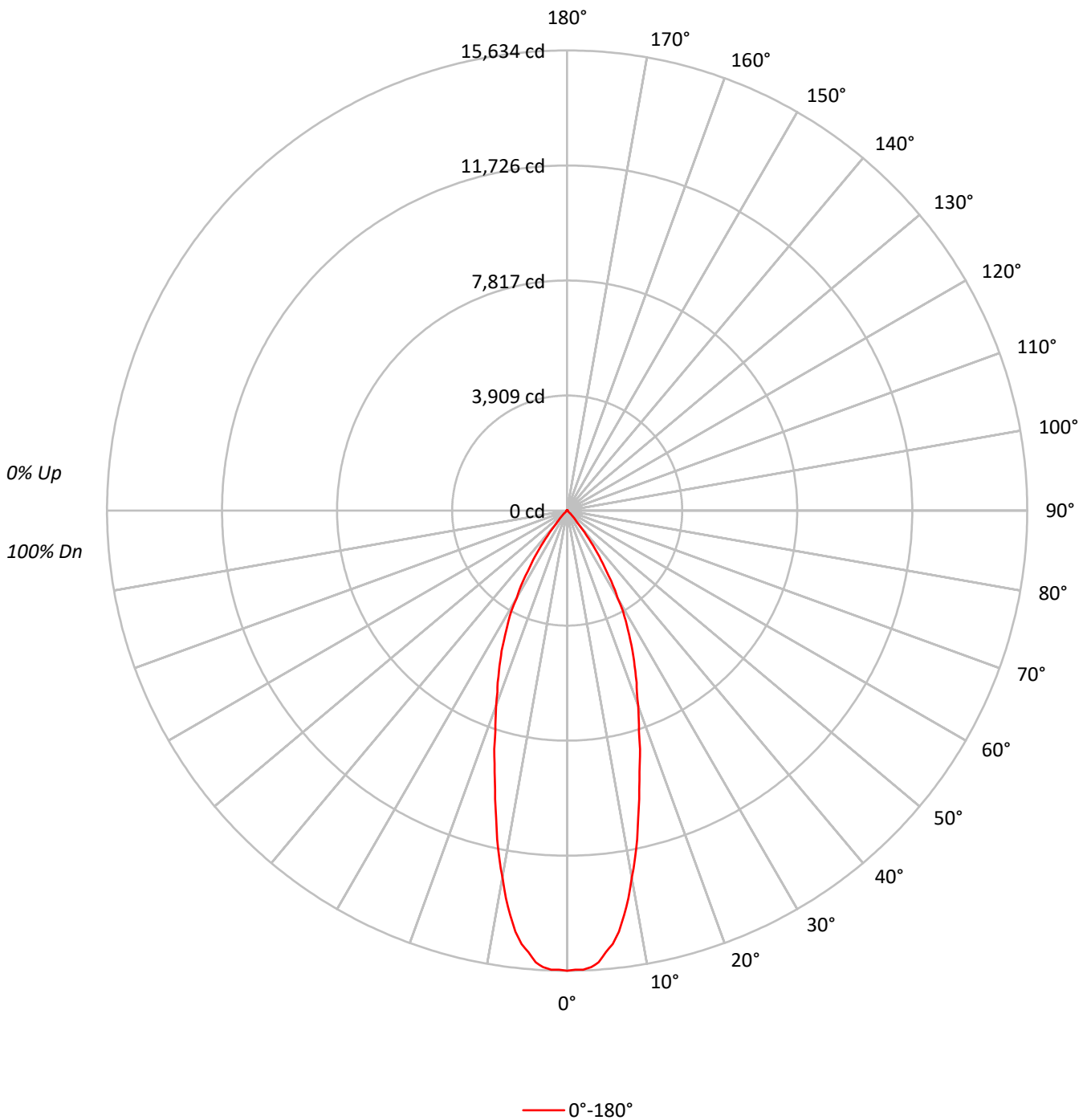
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	482086
5°	466203
10°	396476
15°	302605
20°	231266
25°	179215
30°	122231
35°	71814
40°	21959
45°	8639
50°	130
55°	145
60°	167
65°	394
70°	739
75°	643
80°	479
85°	2901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.4	17.6
10°-20°	2645.8	34.0
20°-30°	2382.1	30.6
30°-40°	1178.5	15.2
40°-50°	179.3	2.3
50°-60°	7.3	0.1
60°-70°	9.5	0.1
70°-80°	3.6	0.0
80°-90°	5.6	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°	6393.2	82.2
0°-40°	7571.7	97.4
0°-60°	7758.4	99.8
0°-90°	7777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7777.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15634	
5°	15061	###
15°	9479	2646
25°	5267	2382
35°	1908	1179
45°	198	179
55°	3	7
65°	5	9
75°	5	4
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15633.7
1°	15601.1
2°	15609.2
3°	15530.5
4°	15386.7
5°	15061.1
6°	14811.4
7°	14415.2
8°	13883.3
9°	13329.7
10°	12662.1
11°	12065.1
12°	11424.7
13°	10716.4
14°	10105.8
15°	9478.9
16°	8944.3
17°	8472.2
18°	7891.4
19°	7465.3
20°	7047.5
21°	6613.3
22°	6295.8
23°	5926.7
24°	5587.5
25°	5267.3
26°	4890.0
27°	4550.9
28°	4246.9
29°	3913.1
30°	3432.8
31°	3161.5
32°	2819.5
33°	2445.0
34°	2160.1
35°	1907.7
37.5°	1207.5
40°	545.5
42.5°	371.8
45°	198.1
47.5°	111.2
50°	2.7
52.5°	10.9
55°	2.7
57.5°	16.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.7
62.5°	13.6
65°	5.4
67.5°	13.6
70°	8.2
72.5°	2.7
75°	5.4
77.5°	0.0
80°	2.7
82.5°	10.9
85°	8.2
87.5°	0.0
90°	0.0

(END OF REPORT)