

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: P250673

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80935 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6598.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

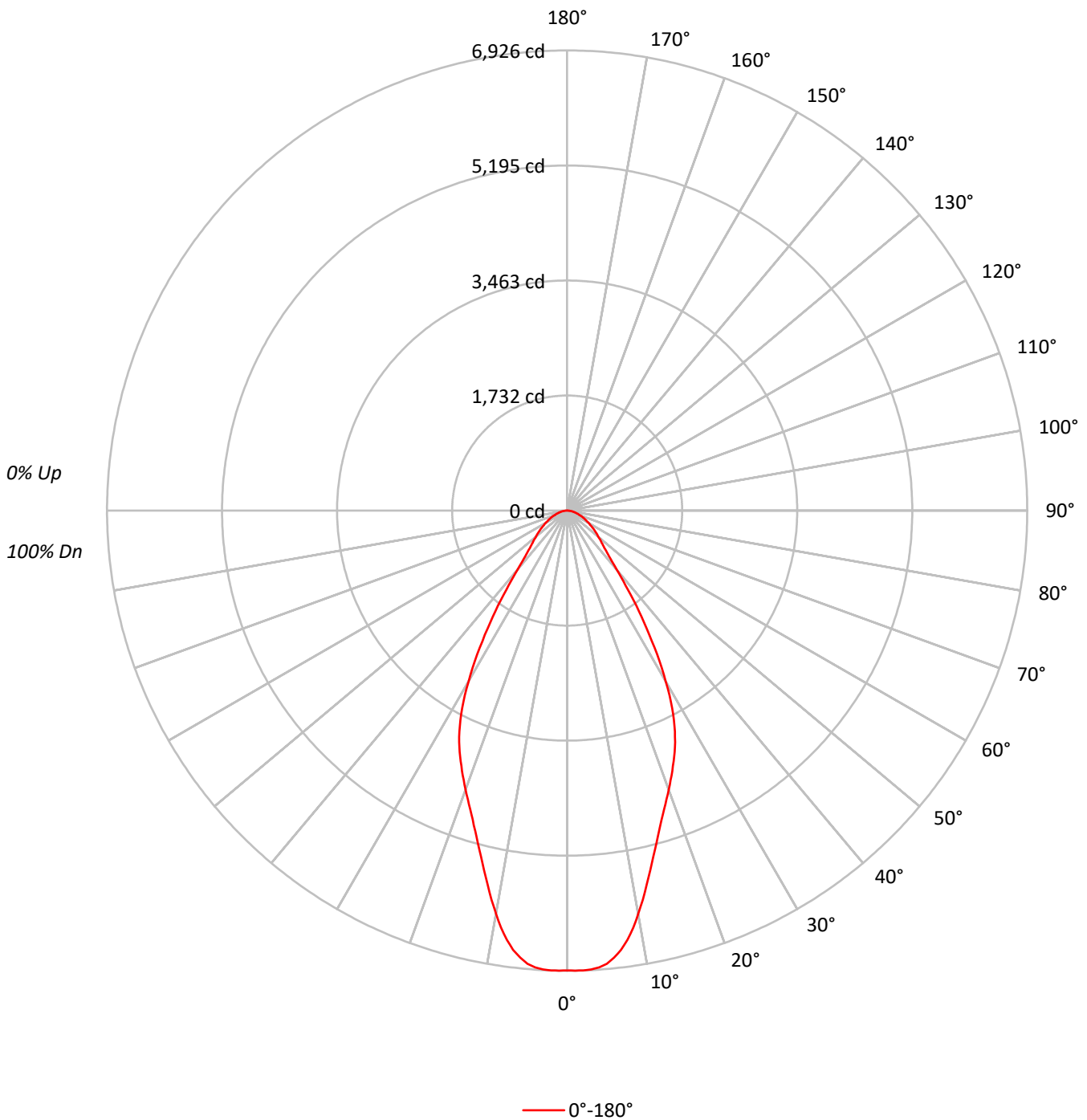
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250673

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250673

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBN0MW

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	112	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213455
5°	211924
10°	193082
15°	165539
20°	146668
25°	130870
30°	105695
35°	73387
40°	46526
45°	34521
50°	29494
55°	25918
60°	23109
65°	20737
70°	17843
75°	16311
80°	15325
85°	13409



TEST NUMBER: P250673

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.9	9.6
10°-20°	1458.0	22.1
20°-30°	1737.7	26.3
30°-40°	1226.6	18.6
40°-50°	633.5	9.6
50°-60°	434.7	6.6
60°-70°	282.6	4.3
70°-80°	148.0	2.2
80°-90°	45.0	0.7
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°	3827.7	58.0
0°-40°	5054.3	76.6
0°-60°	6122.5	92.8
0°-90°	6598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6598.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6922	
5°	6846	632
15°	5185	1458
25°	3846	1738
35°	1950	1227
45°	792	633
55°	482	435
65°	284	283
75°	137	148
85°	38	45
90°	0	



TEST NUMBER: P250673

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	6922.2
1°	6926.4
2°	6926.4
3°	6915.9
4°	6892.7
5°	6846.4
6°	6764.3
7°	6663.2
8°	6524.2
9°	6355.9
10°	6166.4
11°	5966.4
12°	5757.9
13°	5558.0
14°	5364.3
15°	5185.4
16°	5019.0
17°	4865.3
18°	4726.4
19°	4595.8
20°	4469.5
21°	4345.3
22°	4223.2
23°	4101.1
24°	3976.9
25°	3846.4
26°	3698.9
27°	3538.9
28°	3364.2
29°	3179.0
30°	2968.4
31°	2764.2
32°	2555.8
33°	2341.1
34°	2143.1
35°	1949.5
37.5°	1501.1
40°	1155.8
42.5°	930.6
45°	791.6
47.5°	692.6
50°	614.8
52.5°	547.4
55°	482.1
57.5°	423.2



TEST NUMBER: P250673

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	374.7
62.5°	326.3
65°	284.2
67.5°	246.3
70°	197.9
72.5°	170.6
75°	136.9
77.5°	111.5
80°	86.3
82.5°	63.2
85°	37.9
87.5°	21.0
90°	0.0

(END OF REPORT)