

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: P250638

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250638
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 EC8B80835 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7737.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

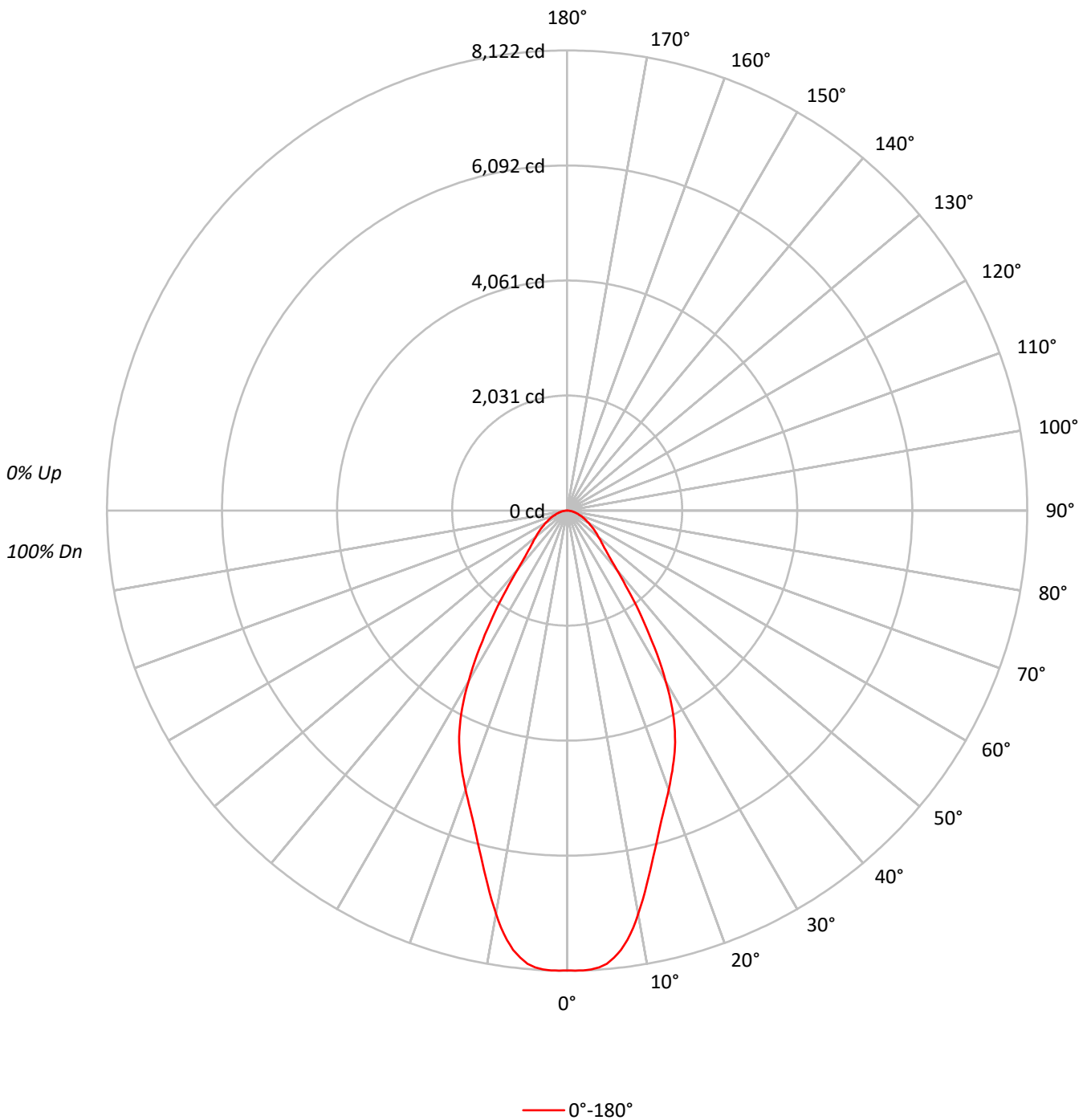
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	250305
5°	248506
10°	226414
15°	194115
20°	171988
25°	153462
30°	123940
35°	86058
40°	54560
45°	40478
50°	34584
55°	30397
60°	27099
65°	24319
70°	20926
75°	19122
80°	17971
85°	15744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.0	9.6
10°-20°	1709.7	22.1
20°-30°	2037.7	26.3
30°-40°	1438.4	18.6
40°-50°	742.8	9.6
50°-60°	509.8	6.6
60°-70°	331.4	4.3
70°-80°	173.5	2.2
80°-90°	52.7	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°	4488.4	58.0
0°-40°	5926.8	76.6
0°-60°	7179.4	92.8
0°-90°	7737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7737.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8117	
5°	8028	741
15°	6080	1710
25°	4510	2038
35°	2286	1438
45°	928	743
55°	565	510
65°	333	331
75°	160	173
85°	44	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8117.2
1°	8122.1
2°	8122.1
3°	8109.7
4°	8082.6
5°	8028.2
6°	7932.0
7°	7813.5
8°	7650.5
9°	7453.1
10°	7230.9
11°	6996.3
12°	6751.9
13°	6517.4
14°	6290.3
15°	6080.5
16°	5885.4
17°	5705.2
18°	5542.3
19°	5389.2
20°	5241.1
21°	5095.4
22°	4952.3
23°	4809.1
24°	4663.4
25°	4510.4
26°	4337.5
27°	4149.9
28°	3945.0
29°	3727.8
30°	3480.8
31°	3241.4
32°	2997.0
33°	2745.2
34°	2513.1
35°	2286.1
37.5°	1760.2
40°	1355.4
42.5°	1091.2
45°	928.2
47.5°	812.2
50°	720.9
52.5°	641.9
55°	565.4
57.5°	496.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	439.4
62.5°	382.7
65°	333.3
67.5°	288.8
70°	232.1
72.5°	200.0
75°	160.5
77.5°	130.8
80°	101.2
82.5°	74.1
85°	44.5
87.5°	24.6
90°	0.0

(END OF REPORT)