

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: P250645

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250645
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 EC8B80840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7686.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

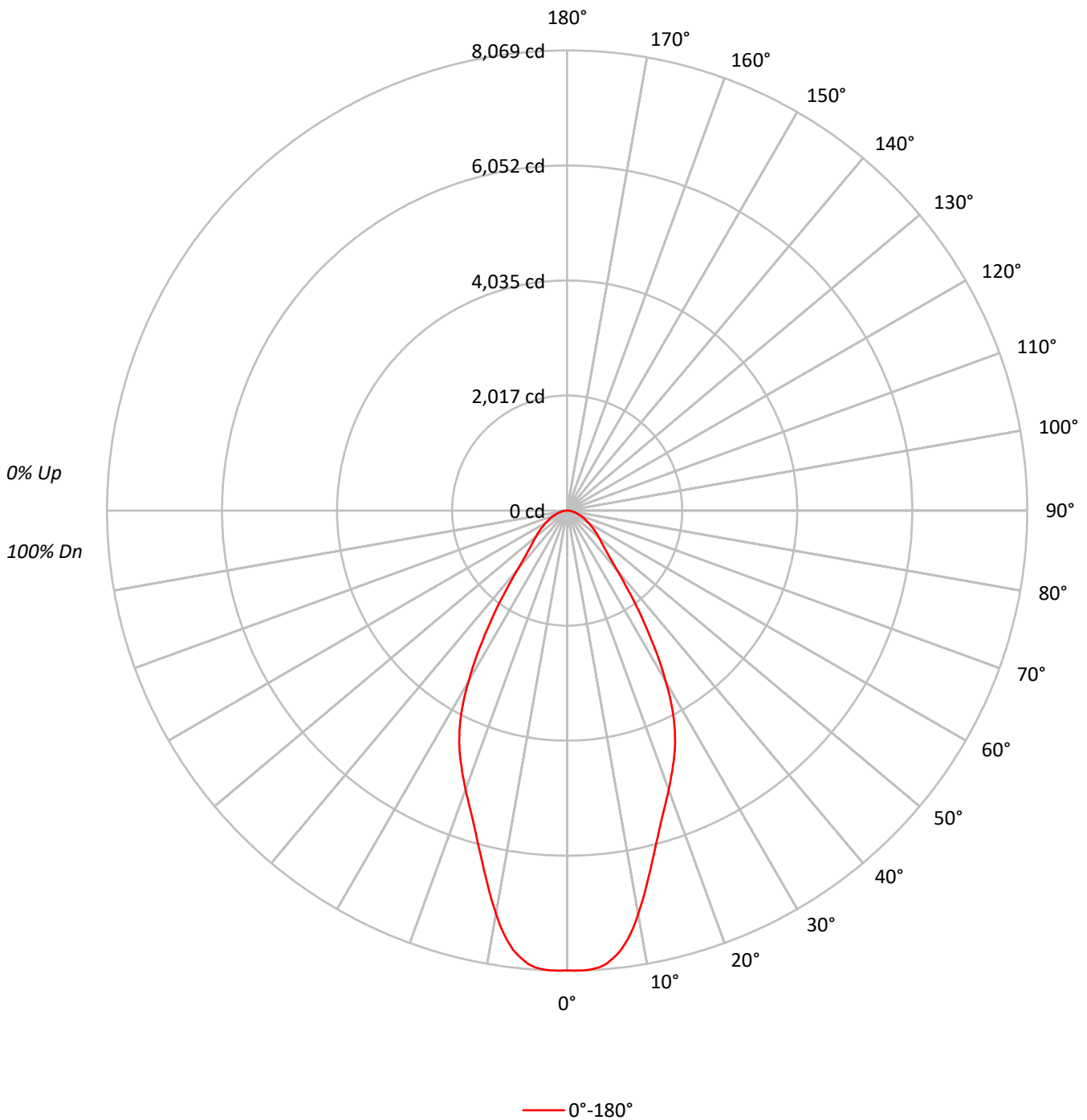
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	248652
5°	246868
10°	224920
15°	192834
20°	170853
25°	152448
30°	123124
35°	85490
40°	54198
45°	40212
50°	34358
55°	30192
60°	26920
65°	24159
70°	20791
75°	18991
80°	17847
85°	15638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.1	9.6
10°-20°	1698.4	22.1
20°-30°	2024.3	26.3
30°-40°	1428.9	18.6
40°-50°	737.9	9.6
50°-60°	506.4	6.6
60°-70°	329.2	4.3
70°-80°	172.3	2.2
80°-90°	52.4	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°	4458.8	58.0
0°-40°	5887.7	76.6
0°-60°	7132.1	92.8
0°-90°	7686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7686.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8064	
5°	7975	736
15°	6040	1698
25°	4481	2024
35°	2271	1429
45°	922	738
55°	562	506
65°	331	329
75°	159	172
85°	44	52
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8063.6
1°	8068.6
2°	8068.6
3°	8056.3
4°	8029.3
5°	7975.3
6°	7879.7
7°	7762.0
8°	7600.1
9°	7404.0
10°	7183.2
11°	6950.2
12°	6707.4
13°	6474.5
14°	6248.8
15°	6040.4
16°	5846.6
17°	5667.6
18°	5505.7
19°	5353.7
20°	5206.5
21°	5061.8
22°	4919.6
23°	4777.4
24°	4632.7
25°	4480.6
26°	4308.9
27°	4122.5
28°	3919.0
29°	3703.2
30°	3457.9
31°	3220.1
32°	2977.2
33°	2727.1
34°	2496.5
35°	2271.0
37.5°	1748.6
40°	1346.4
42.5°	1084.0
45°	922.1
47.5°	806.8
50°	716.2
52.5°	637.7
55°	561.6
57.5°	493.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	436.5
62.5°	380.2
65°	331.1
67.5°	286.9
70°	230.6
72.5°	198.7
75°	159.4
77.5°	129.9
80°	100.5
82.5°	73.6
85°	44.2
87.5°	24.5
90°	0.0

(END OF REPORT)