

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: P250631

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250631
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 EC8B80830 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7440.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

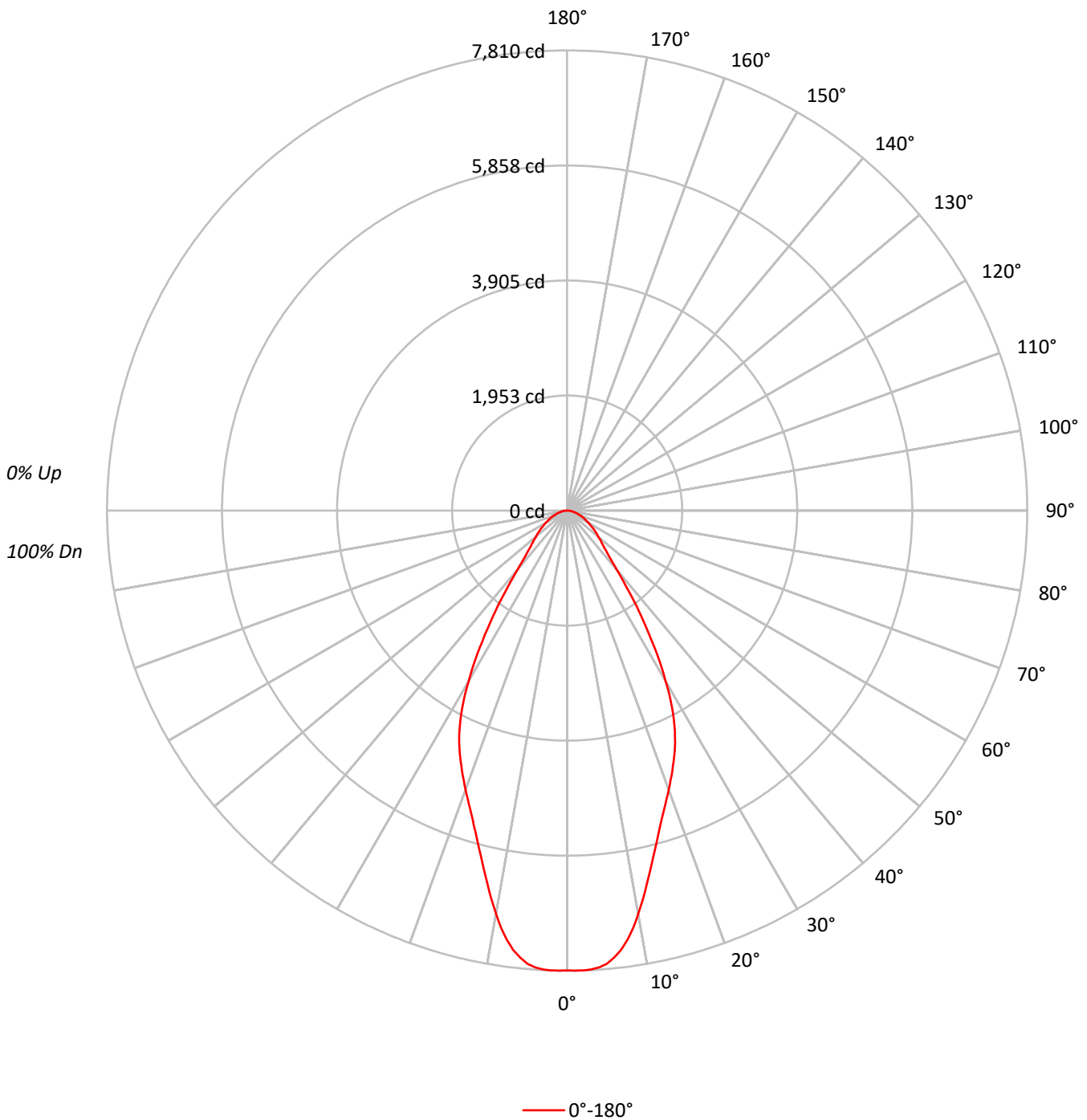
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	240696
5°	238969
10°	217722
15°	186663
20°	165386
25°	147569
30°	119183
35°	82753
40°	52463
45°	38926
50°	33255
55°	29230
60°	26057
65°	23385
70°	20124
75°	18384
80°	17278
85°	15143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.5	9.6
10°-20°	1644.1	22.1
20°-30°	1959.5	26.3
30°-40°	1383.2	18.6
40°-50°	714.3	9.6
50°-60°	490.2	6.6
60°-70°	318.7	4.3
70°-80°	166.8	2.2
80°-90°	50.7	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°	4316.1	58.0
0°-40°	5699.3	76.6
0°-60°	6903.8	92.8
0°-90°	7440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7440.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7806	
5°	7720	713
15°	5847	1644
25°	4337	1960
35°	2198	1383
45°	893	714
55°	544	490
65°	320	319
75°	154	167
85°	43	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7805.6
1°	7810.3
2°	7810.3
3°	7798.4
4°	7772.3
5°	7720.1
6°	7627.5
7°	7513.5
8°	7356.8
9°	7167.0
10°	6953.3
11°	6727.8
12°	6492.7
13°	6267.2
14°	6048.8
15°	5847.1
16°	5659.5
17°	5486.2
18°	5329.5
19°	5182.3
20°	5039.9
21°	4899.8
22°	4762.2
23°	4624.5
24°	4484.4
25°	4337.2
26°	4171.0
27°	3990.6
28°	3793.6
29°	3584.7
30°	3347.2
31°	3117.0
32°	2881.9
33°	2639.8
34°	2416.6
35°	2198.3
37.5°	1692.7
40°	1303.3
42.5°	1049.3
45°	892.6
47.5°	781.0
50°	693.2
52.5°	617.3
55°	543.7
57.5°	477.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	422.5
62.5°	368.0
65°	320.5
67.5°	277.7
70°	223.2
72.5°	192.3
75°	154.3
77.5°	125.8
80°	97.3
82.5°	71.2
85°	42.8
87.5°	23.7
90°	0.0

(END OF REPORT)