

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: P250624

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250624
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 EC8B80827 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7258.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

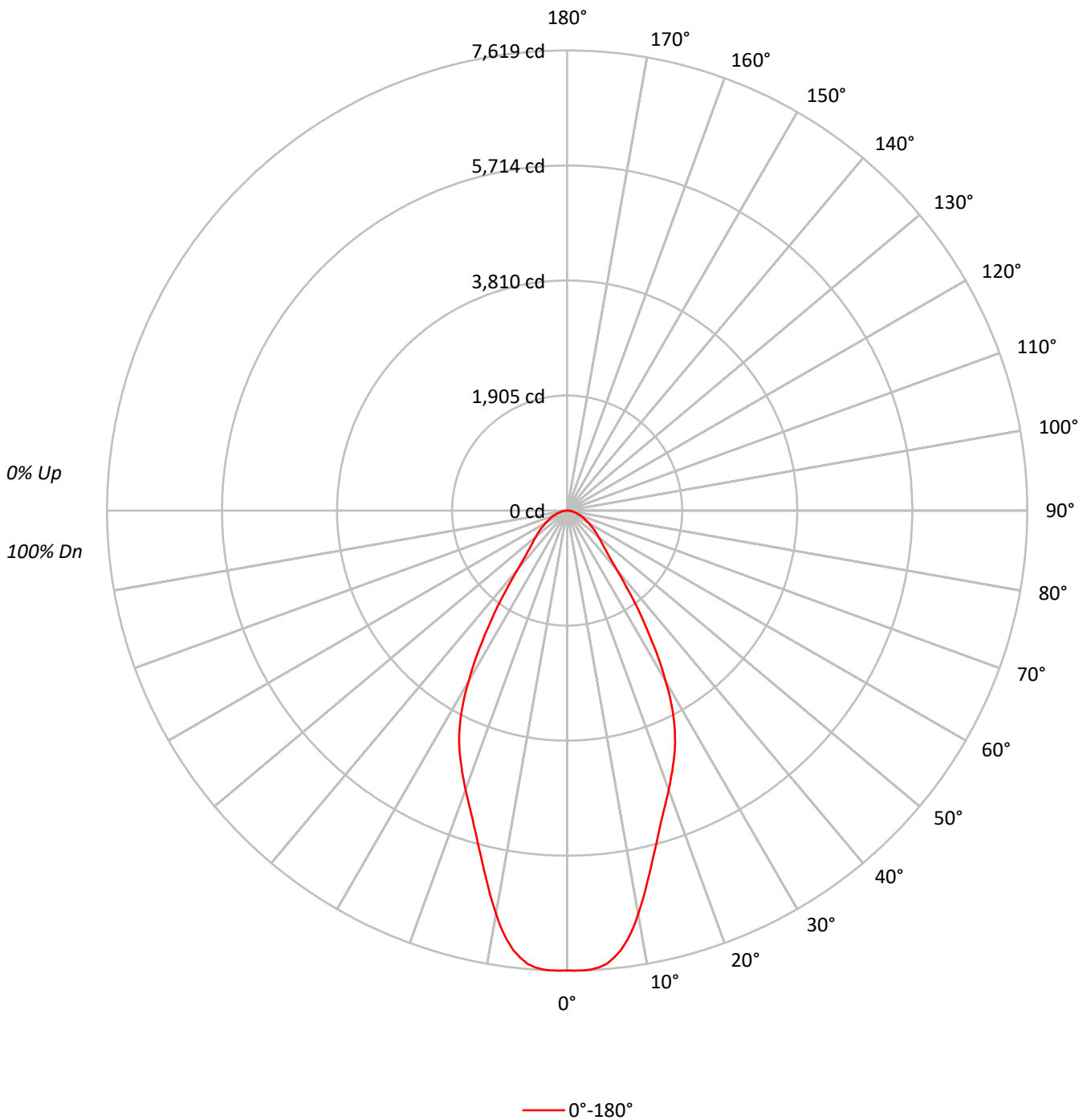
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	234806
5°	233122
10°	212396
15°	182095
20°	161340
25°	143959
30°	116267
35°	80728
40°	51183
45°	37975
50°	32444
55°	28515
60°	25421
65°	22809
70°	19628
75°	17943
80°	16852
85°	14754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.1	9.6
10°-20°	1603.9	22.1
20°-30°	1911.6	26.3
30°-40°	1349.3	18.6
40°-50°	696.9	9.6
50°-60°	478.2	6.6
60°-70°	310.9	4.3
70°-80°	162.7	2.2
80°-90°	49.5	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°	4210.5	58.0
0°-40°	5559.9	76.6
0°-60°	6735.0	92.8
0°-90°	7258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7258.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7615	
5°	7531	695
15°	5704	1604
25°	4231	1912
35°	2144	1349
45°	871	697
55°	530	478
65°	313	311
75°	151	163
85°	42	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7614.6
1°	7619.3
2°	7619.3
3°	7607.6
4°	7582.2
5°	7531.2
6°	7440.9
7°	7329.7
8°	7176.9
9°	6991.7
10°	6783.2
11°	6563.2
12°	6333.9
13°	6113.9
14°	5900.9
15°	5704.0
16°	5521.1
17°	5352.0
18°	5199.1
19°	5055.5
20°	4916.6
21°	4780.0
22°	4645.7
23°	4511.4
24°	4374.7
25°	4231.1
26°	4068.9
27°	3892.9
28°	3700.8
29°	3497.0
30°	3265.3
31°	3040.8
32°	2811.4
33°	2575.2
34°	2357.5
35°	2144.5
37.5°	1651.3
40°	1271.5
42.5°	1023.7
45°	870.8
47.5°	761.9
50°	676.3
52.5°	602.2
55°	530.4
57.5°	465.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	412.2
62.5°	359.0
65°	312.6
67.5°	270.9
70°	217.7
72.5°	187.6
75°	150.6
77.5°	122.7
80°	94.9
82.5°	69.5
85°	41.7
87.5°	23.1
90°	0.0

(END OF REPORT)