

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: P244235

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5177.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

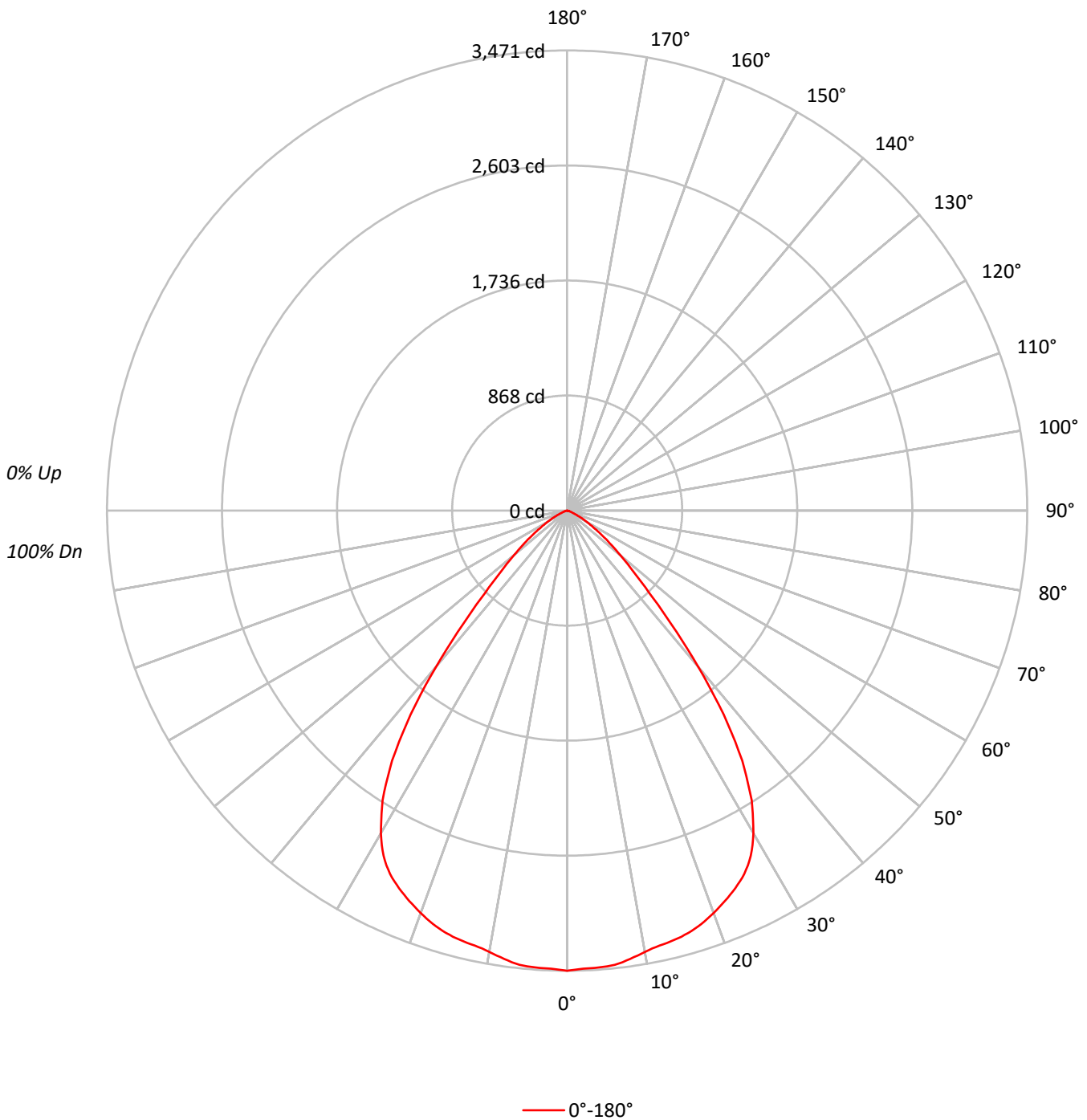
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107045
5°	106804
10°	105838
15°	106234
20°	106010
25°	104975
30°	100055
35°	86631
40°	61798
45°	37975
50°	25051
55°	16569
60°	10614
65°	5786
70°	2831
75°	1430
80°	799
85°	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	6.3
10°-20°	938.6	18.1
20°-30°	1412.5	27.3
30°-40°	1398.5	27.0
40°-50°	710.6	13.7
50°-60°	286.3	5.5
60°-70°	86.7	1.7
70°-80°	15.0	0.3
80°-90°	1.8	0.0
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°	2678.2	51.7
0°-40°	4076.7	78.7
0°-60°	5073.5	98.0
0°-90°	5177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5177.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3471	
5°	3450	327
15°	3328	939
25°	3085	1413
35°	2301	1398
45°	871	711
55°	308	286
65°	79	87
75°	12	15
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3471.4
1°	3463.9
2°	3457.9
3°	3456.4
4°	3454.9
5°	3450.4
6°	3444.5
7°	3432.5
8°	3414.5
9°	3398.1
10°	3380.1
11°	3365.1
12°	3354.7
13°	3347.2
14°	3338.2
15°	3327.7
16°	3314.3
17°	3297.8
18°	3278.4
19°	3255.9
20°	3230.5
21°	3203.5
22°	3176.6
23°	3148.2
24°	3118.3
25°	3085.3
26°	3049.4
27°	3003.0
28°	2949.2
29°	2884.8
30°	2810.0
32.5°	2591.6
35°	2301.3
37.5°	1939.2
40°	1535.2
42.5°	1159.6
45°	870.8
47.5°	665.8
50°	522.2
52.5°	405.5
55°	308.2
57.5°	228.9
60°	172.1
62.5°	122.7
65°	79.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	49.4
70°	31.4
72.5°	19.5
75°	12.0
77.5°	7.5
80°	4.5
82.5°	3.0
85°	1.5
87.5°	0.0
90°	0.0

(END OF REPORT)