

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: P244253

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244253
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 EC8B50840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5483.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

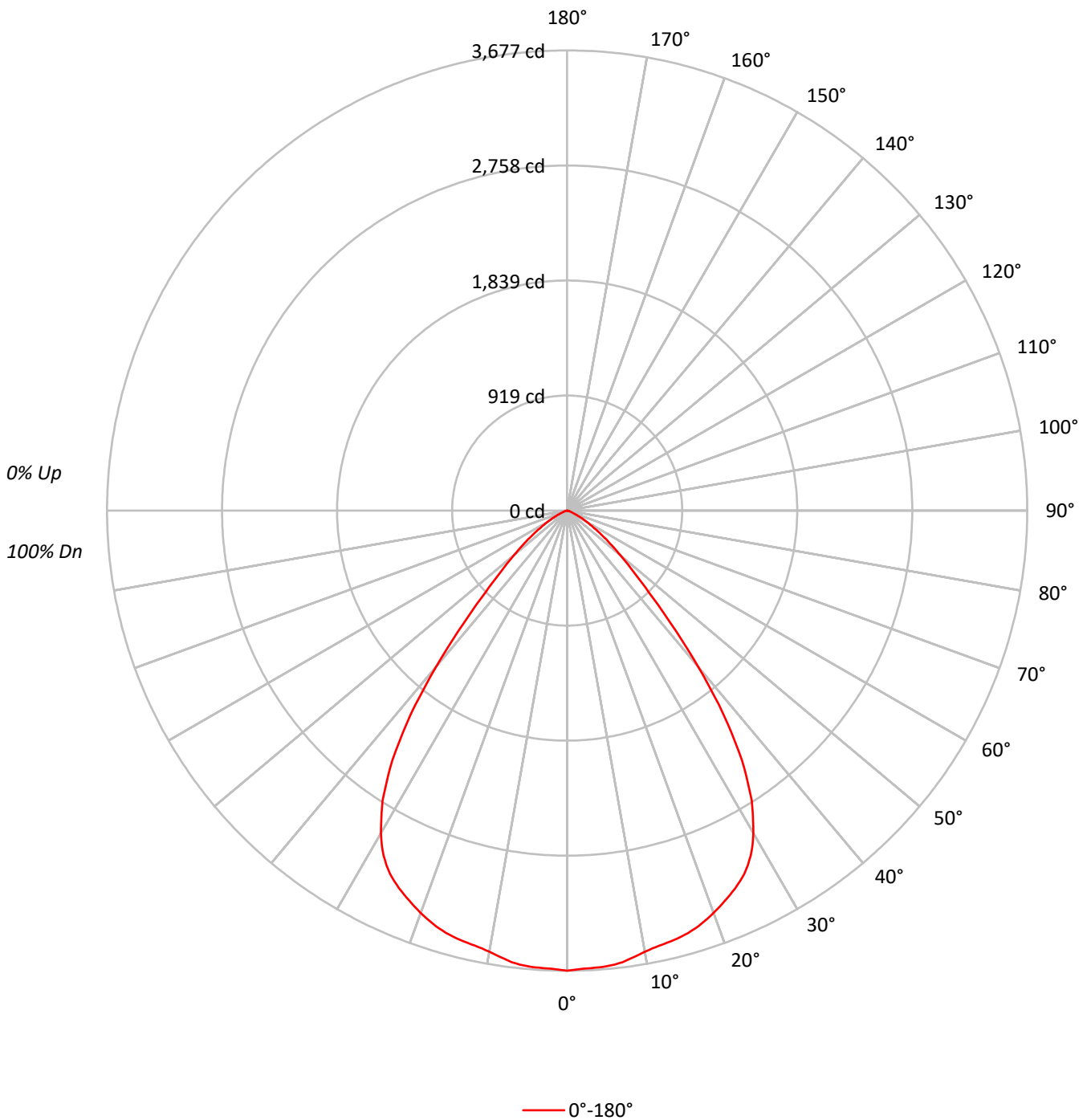
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244253

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244253

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0H

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°	113373
5°	113119
10°	112094
15°	112513
20°	112274
25°	111181
30°	105969
35°	91750
40°	65449
45°	40221
50°	26534
55°	17553
60°	11237
65°	6129
70°	3002
75°	1513
80°	852
85°	566



TEST NUMBER: P244253

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	6.3
10°-20°	994.1	18.1
20°-30°	1496.0	27.3
30°-40°	1481.1	27.0
40°-50°	752.6	13.7
50°-60°	303.2	5.5
60°-70°	91.8	1.7
70°-80°	15.8	0.3
80°-90°	2.0	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°	2836.5	51.7
0°-40°	4317.6	78.7
0°-60°	5373.4	98.0
0°-90°	5483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5483.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3677	
5°	3654	346
15°	3524	994
25°	3268	1496
35°	2437	1481
45°	922	753
55°	326	303
65°	84	92
75°	13	16
85°	2	2
90°	0	



TEST NUMBER: P244253

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	3676.6
1°	3668.6
2°	3662.3
3°	3660.7
4°	3659.1
5°	3654.4
6°	3648.0
7°	3635.4
8°	3616.4
9°	3598.9
10°	3579.9
11°	3564.1
12°	3553.0
13°	3545.0
14°	3535.5
15°	3524.4
16°	3510.2
17°	3492.7
18°	3472.1
19°	3448.4
20°	3421.4
21°	3392.9
22°	3364.4
23°	3334.3
24°	3302.6
25°	3267.7
26°	3229.7
27°	3180.5
28°	3123.5
29°	3055.4
30°	2976.1
32.5°	2744.7
35°	2437.3
37.5°	2053.8
40°	1625.9
42.5°	1228.2
45°	922.3
47.5°	705.2
50°	553.1
52.5°	429.5
55°	326.5
57.5°	242.5
60°	182.2
62.5°	129.9
65°	84.0



TEST NUMBER: P244253

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	52.3
70°	33.3
72.5°	20.6
75°	12.7
77.5°	7.9
80°	4.8
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)