

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: P243821

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

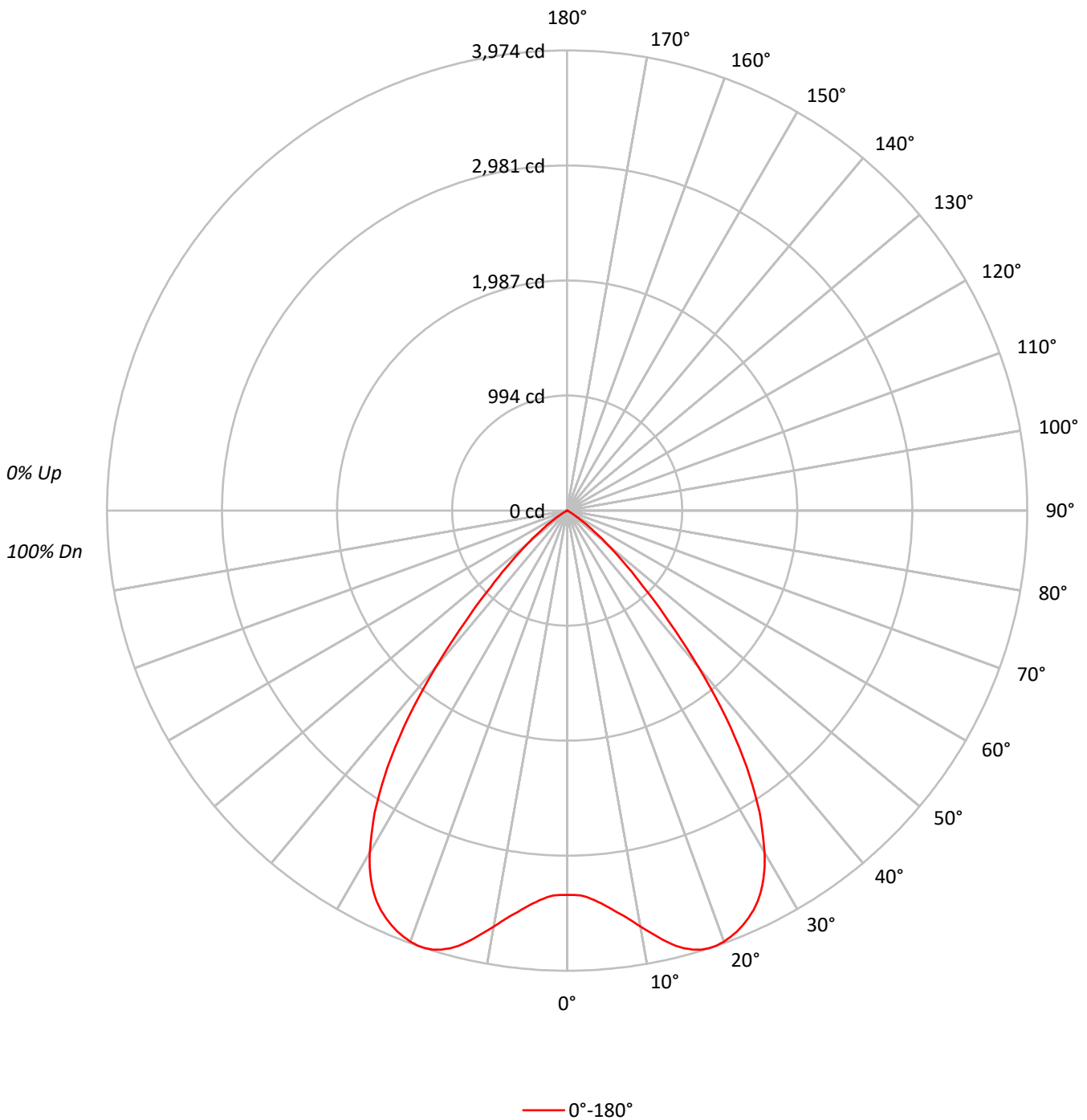
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243821

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P243821

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0LI

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	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102392
5°	105420
10°	114204
15°	124954
20°	129998
25°	129523
30°	121490
35°	101876
40°	70931
45°	40626
50°	21813
55°	9000
60°	2239
65°	576
70°	289
75°	191
80°	284
85°	0



TEST NUMBER: P243821

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.9	5.8
10°-20°	1103.2	19.1
20°-30°	1735.8	30.1
30°-40°	1651.1	28.6
40°-50°	761.2	13.2
50°-60°	173.0	3.0
60°-70°	11.4	0.2
70°-80°	2.3	0.0
80°-90°	0.2	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°	3171.9	55.0
0°-40°	4823.0	83.6
0°-60°	5757.1	99.8
0°-90°	5771.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5771.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3320	
5°	3406	333
15°	3914	1103
25°	3807	1736
35°	2706	1651
45°	932	761
55°	167	173
65°	8	11
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P243821

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	3320.5
1°	3318.9
2°	3325.2
3°	3344.1
4°	3372.6
5°	3405.7
6°	3446.8
7°	3491.0
8°	3536.8
9°	3590.4
10°	3647.3
11°	3704.1
12°	3764.1
13°	3821.0
14°	3873.1
15°	3914.1
16°	3944.1
17°	3964.6
18°	3974.1
19°	3972.5
20°	3961.5
21°	3942.5
22°	3918.9
23°	3887.3
24°	3851.0
25°	3806.8
26°	3754.7
27°	3688.3
28°	3609.4
29°	3517.8
30°	3412.0
32.5°	3094.7
35°	2706.3
37.5°	2254.7
40°	1762.1
42.5°	1302.6
45°	931.6
47.5°	660.0
50°	454.7
52.5°	290.5
55°	167.4
57.5°	83.7
60°	36.3
62.5°	14.2
65°	7.9



TEST NUMBER: P243821

CATALOG NUMBER: LSR8B50D010 EC8B50840 8LBW0LI

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.7
70°	3.2
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)