

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: P243803

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243803
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 EC8B50827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

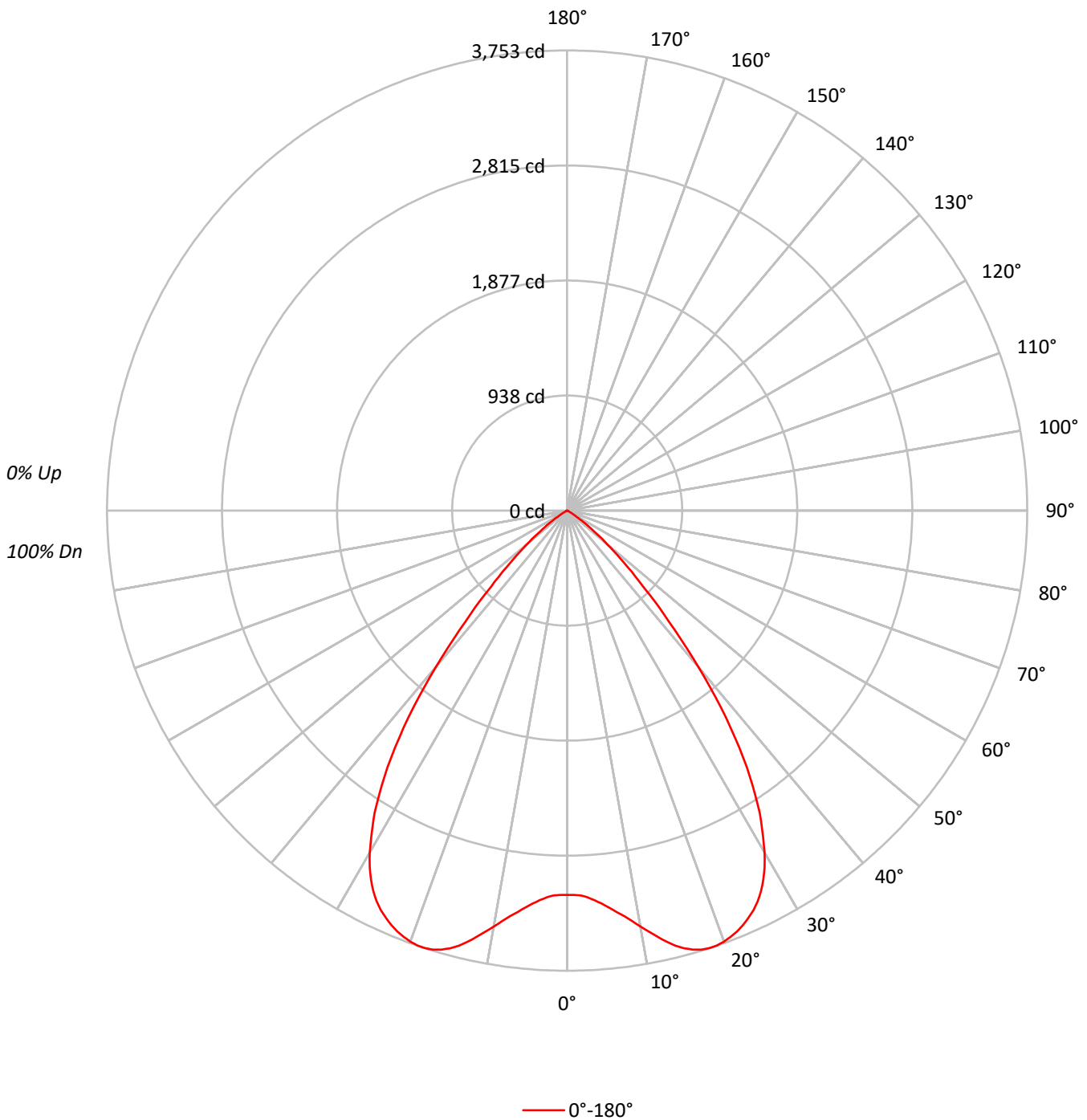
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243803

CATALOG NUMBER: LSR8B50D010 EC8B50827 8LBW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P243803

CATALOG NUMBER: LSR8B50D010 EC8B50827 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°	96697
5°	99558
10°	107851
15°	118004
20°	122765
25°	122317
30°	114732
35°	96207
40°	66987
45°	38363
50°	20600
55°	8500
60°	2115
65°	547
70°	270
75°	179
80°	266
85°	0



TEST NUMBER: P243803

CATALOG NUMBER: LSR8B50D010 EC8B50827 8LBW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	5.8
10°-20°	1041.8	19.1
20°-30°	1639.2	30.1
30°-40°	1559.3	28.6
40°-50°	718.8	13.2
50°-60°	163.3	3.0
60°-70°	10.8	0.2
70°-80°	2.2	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°	2995.4	55.0
0°-40°	4554.7	83.6
0°-60°	5436.9	99.8
0°-90°	5450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5450.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3136	
5°	3216	314
15°	3696	1042
25°	3595	1639
35°	2556	1559
45°	880	719
55°	158	163
65°	8	11
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P243803

CATALOG NUMBER: LSR8B50D010 EC8B50827 8LBW0LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	3135.8
1°	3134.3
2°	3140.2
3°	3158.1
4°	3185.0
5°	3216.3
6°	3255.0
7°	3296.8
8°	3340.0
9°	3390.7
10°	3444.4
11°	3498.1
12°	3554.8
13°	3608.4
14°	3657.6
15°	3696.4
16°	3724.7
17°	3744.1
18°	3753.1
19°	3751.6
20°	3741.1
21°	3723.2
22°	3700.9
23°	3671.1
24°	3636.8
25°	3595.0
26°	3545.8
27°	3483.2
28°	3408.6
29°	3322.1
30°	3222.2
32.5°	2922.5
35°	2555.7
37.5°	2129.3
40°	1664.1
42.5°	1230.1
45°	879.7
47.5°	623.3
50°	429.4
52.5°	274.4
55°	158.1
57.5°	79.0
60°	34.3
62.5°	13.4
65°	7.5



TEST NUMBER: P243803

CATALOG NUMBER: LSR8B50D010 EC8B50827 8LBW0LI

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.5
70°	3.0
72.5°	3.0
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)