

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: P244301

Luminaire Tested: **LSR8B50D010 EC8B509730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244301
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 EC8B509730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

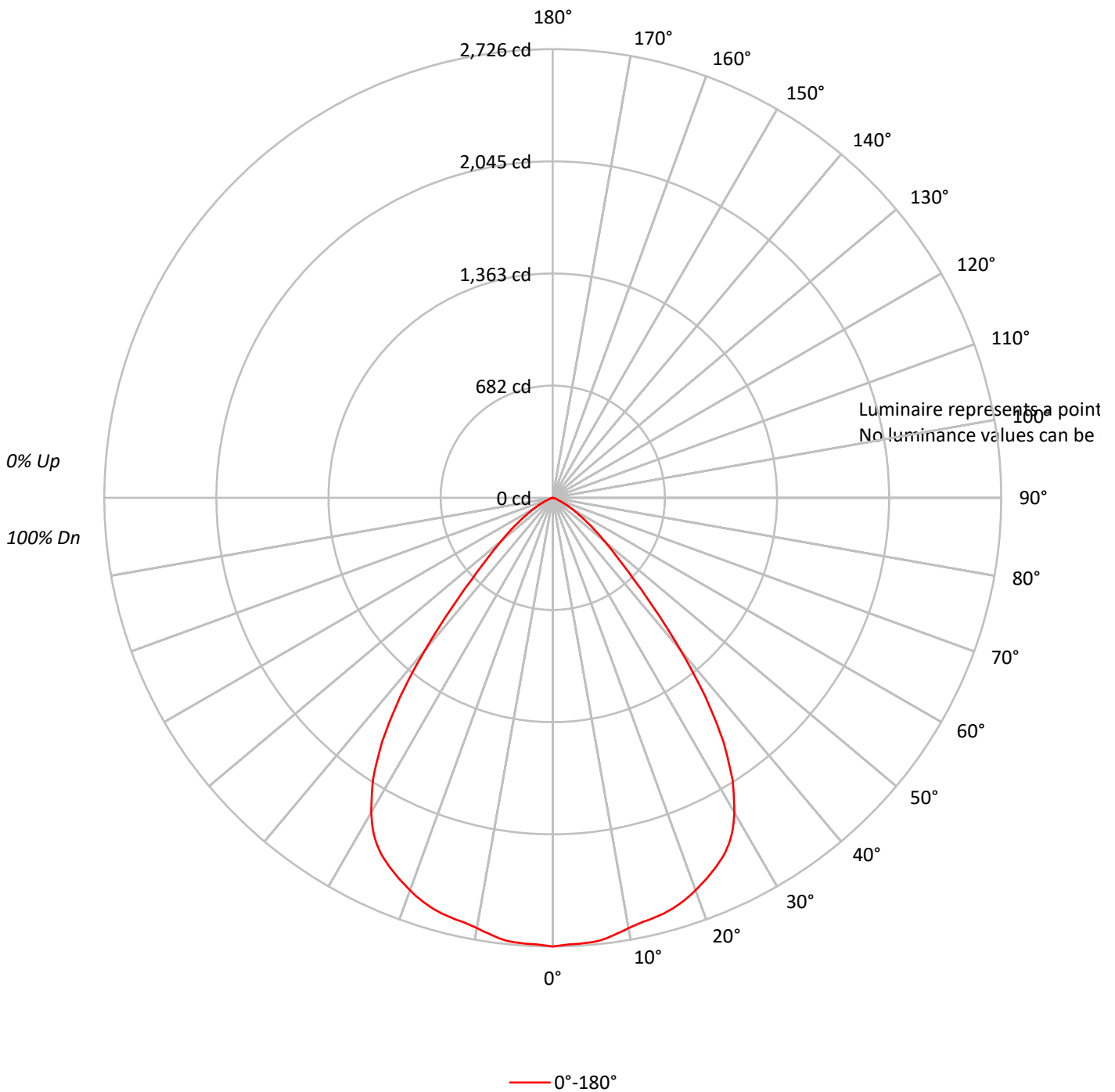
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244301

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244301

CATALOG NUMBER: LSR8B50D010 EC8B509730 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):





TEST NUMBER: P244301

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	6.3
10°-20°	737.2	18.1
20°-30°	1109.4	27.3
30°-40°	1098.3	27.0
40°-50°	558.1	13.7
50°-60°	224.8	5.5
60°-70°	68.1	1.7
70°-80°	11.7	0.3
80°-90°	1.5	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°	2103.5	51.7
0°-40°	3201.8	78.7
0°-60°	3984.7	98.0
0°-90°	4066.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2726	
5°	2710	257
15°	2614	737
25°	2423	1109
35°	1807	1098
45°	684	558
55°	242	225
65°	62	68
75°	9	12
85°	1	1
90°	0	



TEST NUMBER: P244301

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBW0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	2726.4
1°	2720.5
2°	2715.8
3°	2714.7
4°	2713.5
5°	2710.0
6°	2705.3
7°	2695.9
8°	2681.8
9°	2668.8
10°	2654.7
11°	2643.0
12°	2634.8
13°	2628.9
14°	2621.8
15°	2613.6
16°	2603.0
17°	2590.1
18°	2574.8
19°	2557.2
20°	2537.2
21°	2516.1
22°	2494.9
23°	2472.6
24°	2449.1
25°	2423.2
26°	2395.0
27°	2358.6
28°	2316.3
29°	2265.7
30°	2207.0
32.5°	2035.4
35°	1807.4
37.5°	1523.0
40°	1205.7
42.5°	910.8
45°	684.0
47.5°	523.0
50°	410.1
52.5°	318.5
55°	242.1
57.5°	179.8
60°	135.1
62.5°	96.4
65°	62.3



TEST NUMBER: P244301

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBW0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	38.8
70°	24.7
72.5°	15.3
75°	9.4
77.5°	5.9
80°	3.5
82.5°	2.4
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)