

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: P250442

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809727 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3441.0 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

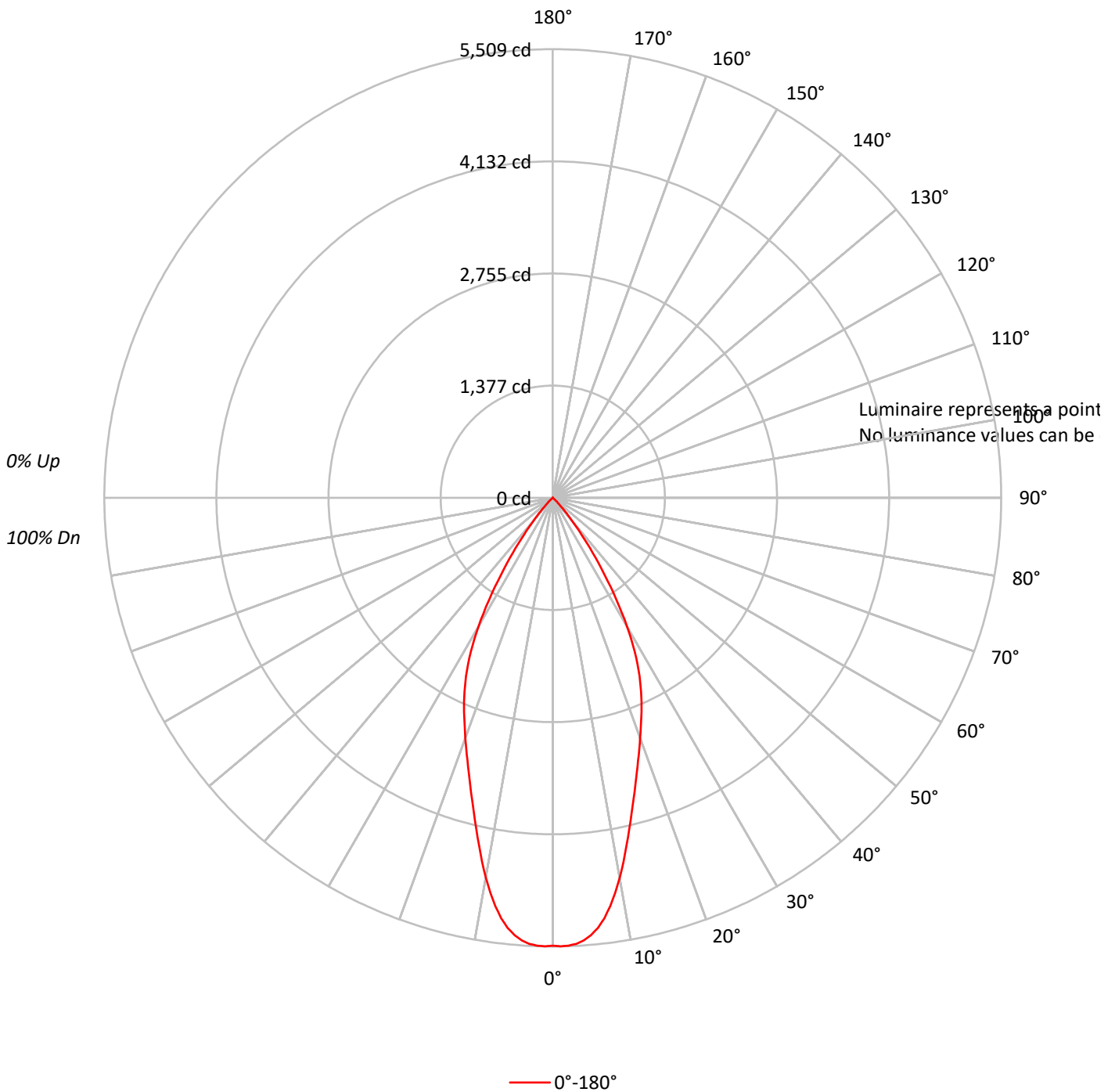
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250442

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P250442

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0B

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	114	111	109	107	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72		79	75	71		77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64		71	67	64		70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61		68	63	60		67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57		65	60	57		64	60	57	56

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P250442

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	14.3
10°-20°	1072.8	31.2
20°-30°	1151.7	33.5
30°-40°	622.5	18.1
40°-50°	97.1	2.8
50°-60°	2.7	0.1
60°-70°	0.7	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	2718.1	79.0
0°-40°	3340.6	97.1
0°-60°	3440.4	100.0
0°-90°	3441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5498	
5°	5390	494
15°	3830	1073
25°	2553	1152
35°	978	622
45°	90	97
55°	0	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250442

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	5498.4
1°	5508.8
2°	5503.6
3°	5484.8
4°	5448.6
5°	5389.9
6°	5309.2
7°	5200.6
8°	5064.6
9°	4908.1
10°	4734.1
11°	4551.6
12°	4362.2
13°	4173.0
14°	3997.3
15°	3830.3
16°	3677.1
17°	3529.0
18°	3391.3
19°	3262.3
20°	3138.3
21°	3017.8
22°	2904.1
23°	2790.6
24°	2671.8
25°	2552.9
26°	2432.4
27°	2294.8
28°	2143.2
29°	1988.5
30°	1826.5
31°	1652.7
32°	1478.7
33°	1306.6
34°	1132.7
35°	977.7
37.5°	624.9
40°	361.5
42.5°	192.9
45°	89.6
47.5°	48.3
50°	15.6
52.5°	1.8
55°	0.0
57.5°	1.8



TEST NUMBER: P250442

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0B

CANDELA DISTRIBUTION (continued):

	0°
60°	1.8
62.5°	0.0
65°	0.0
67.5°	1.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)