

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: P244372

Luminaire Tested: **LSR8B40D010 EC8B409730 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B409730 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 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: 2936.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

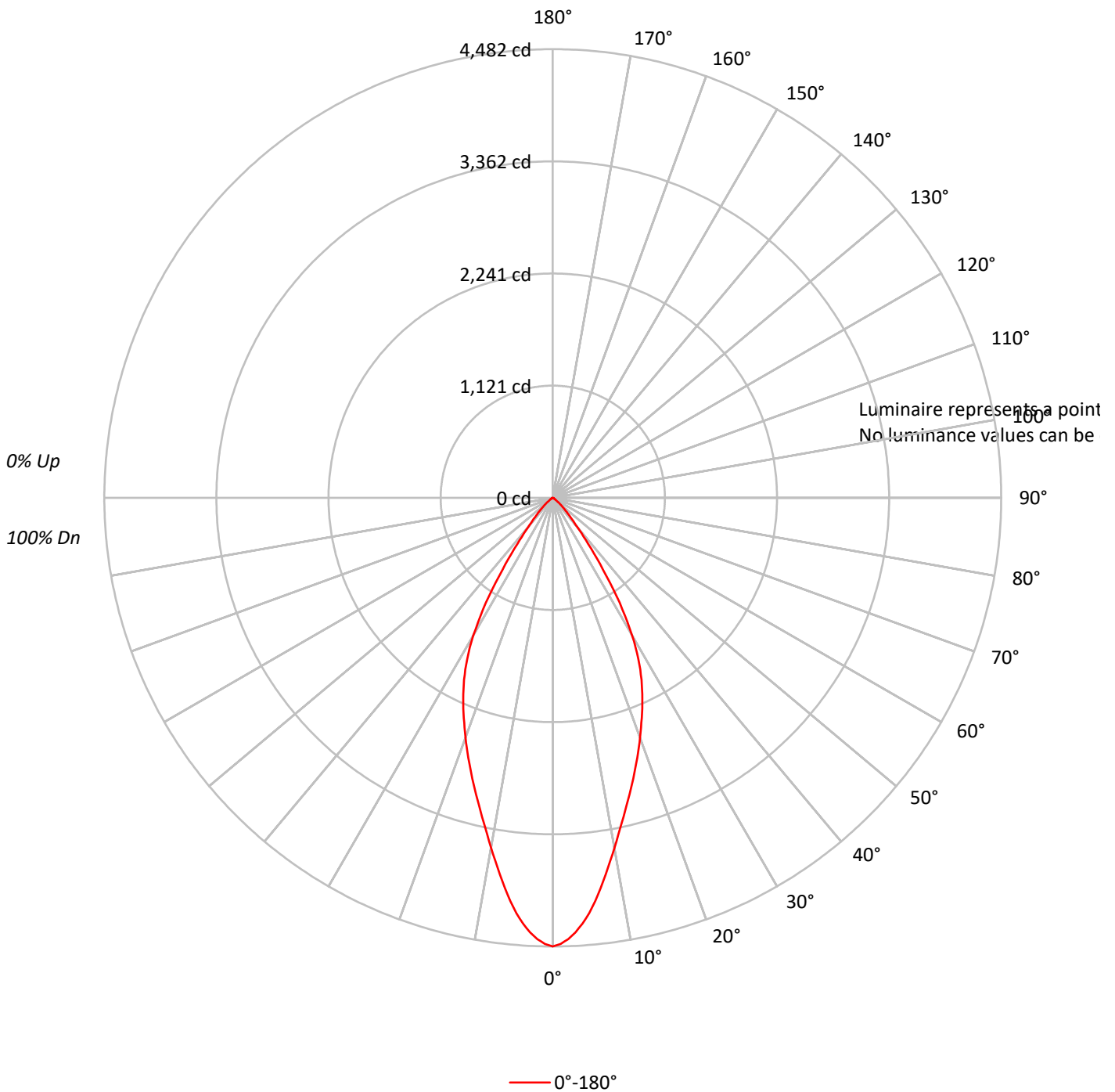
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244372

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P244372

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBN0H

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	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P244372

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.9	12.8
10°-20°	842.3	28.7
20°-30°	957.6	32.6
30°-40°	562.4	19.2
40°-50°	150.9	5.1
50°-60°	35.8	1.2
60°-70°	8.2	0.3
70°-80°	1.8	0.1
80°-90°	0.1	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°	2176.8	74.1
0°-40°	2739.1	93.3
0°-60°	2925.9	99.7
0°-90°	2936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2936.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4482	
5°	4164	377
15°	3012	842
25°	2113	958
35°	876	562
45°	180	151
55°	36	36
65°	8	8
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P244372

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBN0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	4481.8
1°	4457.0
2°	4411.4
3°	4347.0
4°	4263.7
5°	4164.5
6°	4052.5
7°	3925.6
8°	3798.6
9°	3670.7
10°	3548.8
11°	3429.8
12°	3317.7
13°	3213.6
14°	3109.5
15°	3012.3
16°	2917.2
17°	2823.0
18°	2731.7
19°	2639.5
20°	2549.3
21°	2459.1
22°	2372.8
23°	2287.5
24°	2200.3
25°	2113.0
26°	2022.8
27°	1924.6
28°	1821.5
29°	1708.5
30°	1586.5
32.5°	1244.4
35°	875.5
37.5°	577.1
40°	377.8
42.5°	260.8
45°	180.5
47.5°	123.9
50°	82.3
52.5°	53.5
55°	35.7
57.5°	23.8
60°	15.9
62.5°	10.9
65°	7.9



TEST NUMBER: P244372

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.0
70°	3.0
72.5°	2.0
75°	2.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)