

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P212355

Luminaire Tested: **LSR4B40D010BZ EC4B30509030 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B40D010BZ EC4B30509030 4LBSB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3013.5 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

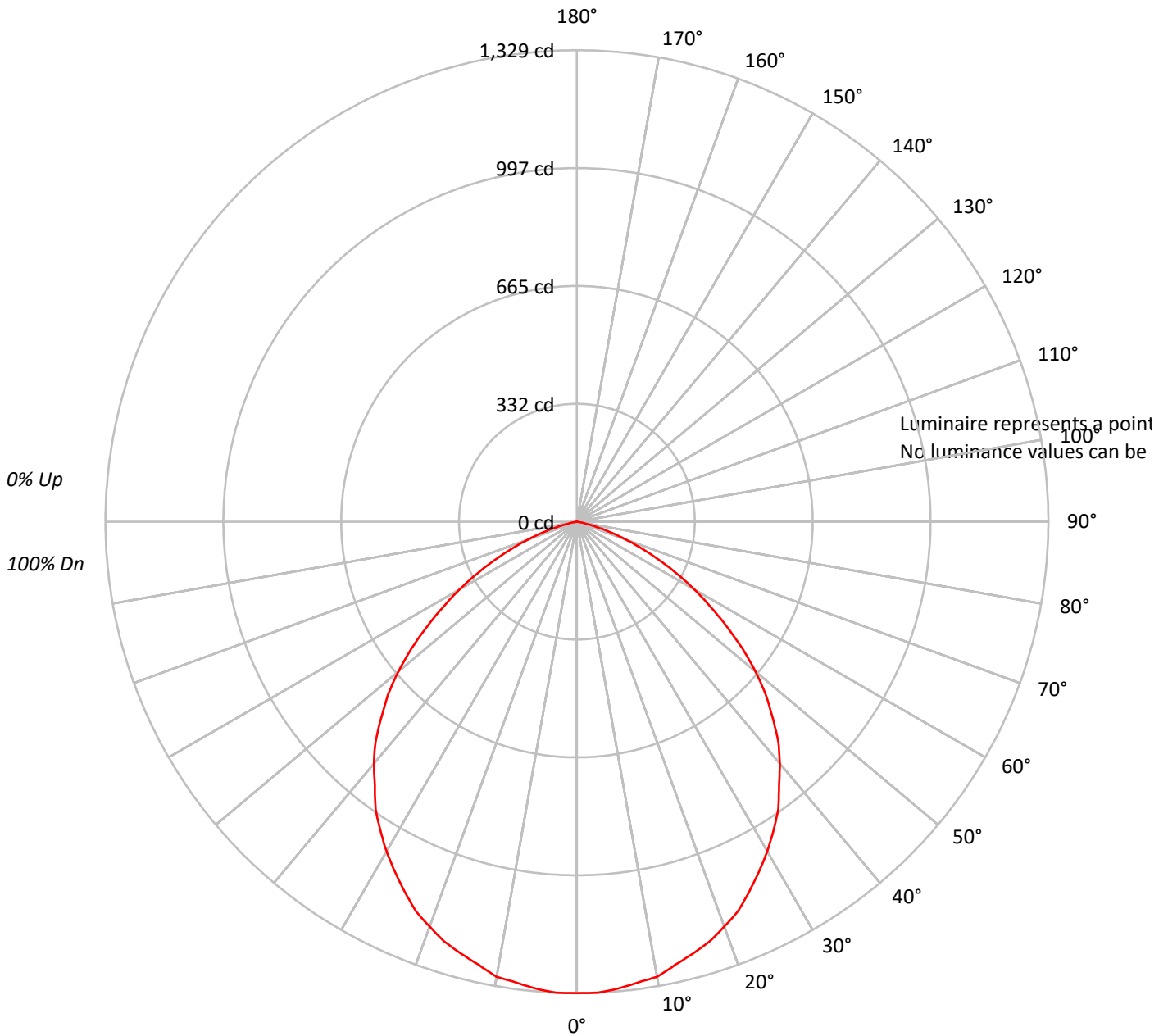
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212355

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBSB1

Luminous Intensity Polar Plot





TEST NUMBER: P212355

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBSB1

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65			65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212355

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBSB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	4.2
10°-20°	356.0	11.8
20°-30°	529.6	17.6
30°-40°	616.2	20.4
40°-50°	600.7	19.9
50°-60°	462.0	15.3
60°-70°	255.4	8.5
70°-80°	67.6	2.2
80°-90°	0.5	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°	1011.0	33.6
0°-40°	1627.3	54.0
0°-60°	2689.9	89.3
0°-90°	3013.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1329	
5°	1322	125
15°	1261	356
25°	1150	530
35°	989	616
45°	779	601
55°	516	462
65°	256	255
75°	57	68
85°	0	1
90°	0	



TEST NUMBER: P212355

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBSB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1329.3
2.5°	1329.3
5°	1321.7
7.5°	1310.2
10°	1302.6
12.5°	1279.7
15°	1260.6
17.5°	1241.5
20°	1214.7
22.5°	1188.0
25°	1149.8
27.5°	1111.6
30°	1073.4
32.5°	1031.4
35°	989.4
37.5°	935.9
40°	890.0
42.5°	840.4
45°	779.3
47.5°	722.0
50°	657.0
52.5°	588.3
55°	515.7
57.5°	446.9
60°	382.0
62.5°	317.1
65°	255.9
67.5°	198.6
70°	145.2
72.5°	99.3
75°	57.3
77.5°	26.7
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)