

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: P212247

Luminaire Tested: **LSR4B40D010BZ EC4B30508027 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212247
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 EC4B30508027 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 2558.9 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

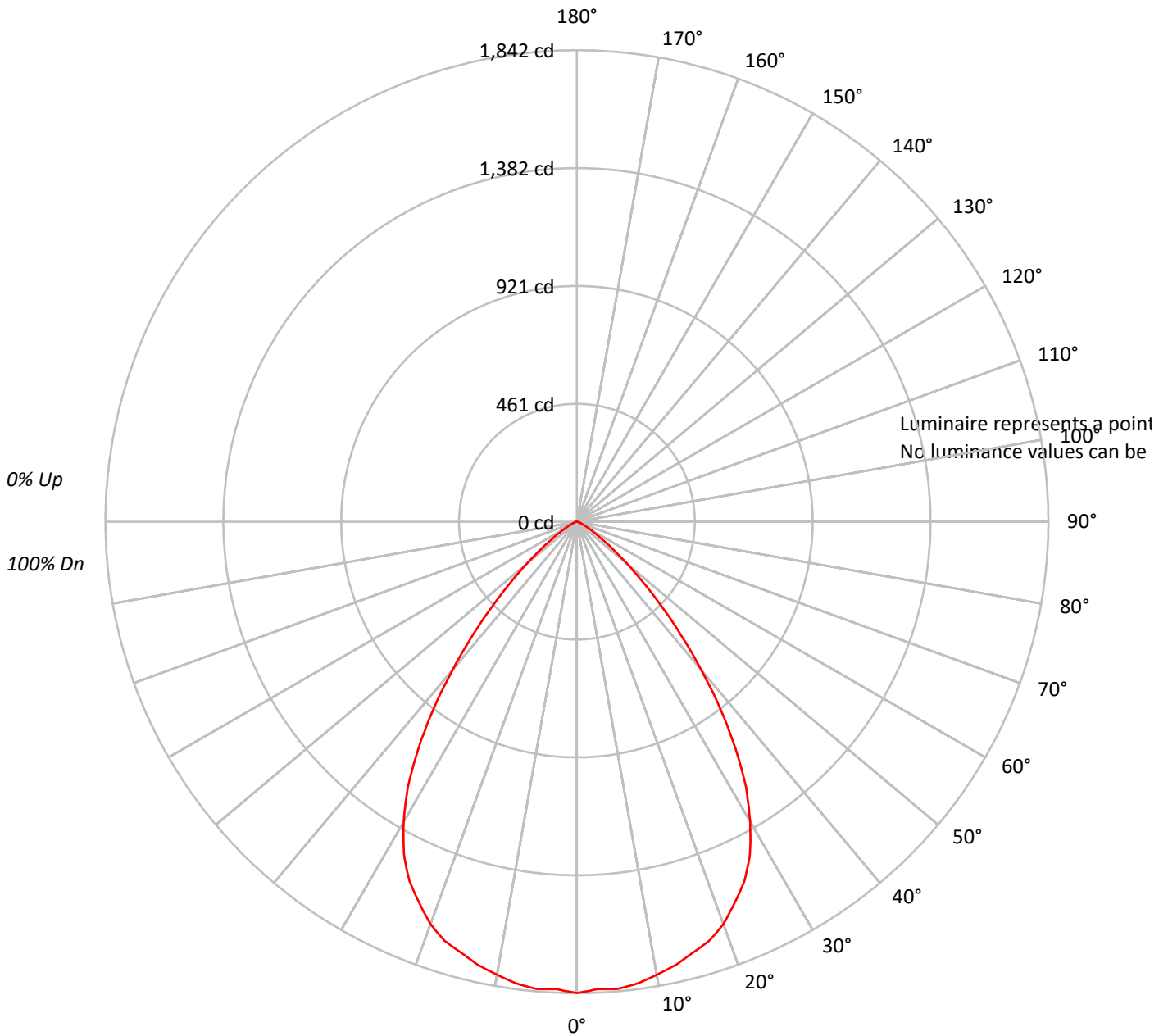
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212247

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P212247

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWGPH1

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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212247

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	6.8
10°-20°	492.3	19.2
20°-30°	706.1	27.6
30°-40°	664.8	26.0
40°-50°	367.2	14.3
50°-60°	117.8	4.6
60°-70°	29.4	1.2
70°-80°	7.0	0.3
80°-90°	0.6	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°	1372.1	53.6
0°-40°	2036.9	79.6
0°-60°	2521.9	98.6
0°-90°	2558.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1842	
5°	1833	174
15°	1744	492
25°	1549	706
35°	1078	665
45°	466	367
55°	120	118
65°	27	29
75°	4	7
85°	0	1
90°	0	



TEST NUMBER: P212247

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1841.8
2.5°	1828.5
5°	1832.9
7.5°	1819.6
10°	1797.4
12.5°	1775.2
15°	1744.1
17.5°	1717.5
20°	1673.1
22.5°	1611.0
25°	1548.9
27.5°	1464.5
30°	1353.6
32.5°	1229.3
35°	1078.4
37.5°	918.7
40°	754.5
42.5°	603.6
45°	466.0
47.5°	350.6
50°	253.0
52.5°	177.5
55°	119.8
57.5°	79.9
60°	57.7
62.5°	39.9
65°	26.6
67.5°	17.8
70°	13.3
72.5°	8.9
75°	4.4
77.5°	4.4
80°	4.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)