

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: P210884

Luminaire Tested: **LSR4B10D010BZ EC4B10209730 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210884
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: LSR4B10D010BZ EC4B10209730 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 524.4 lumens
Efficiency: N/A
Efficacy: 53.0 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

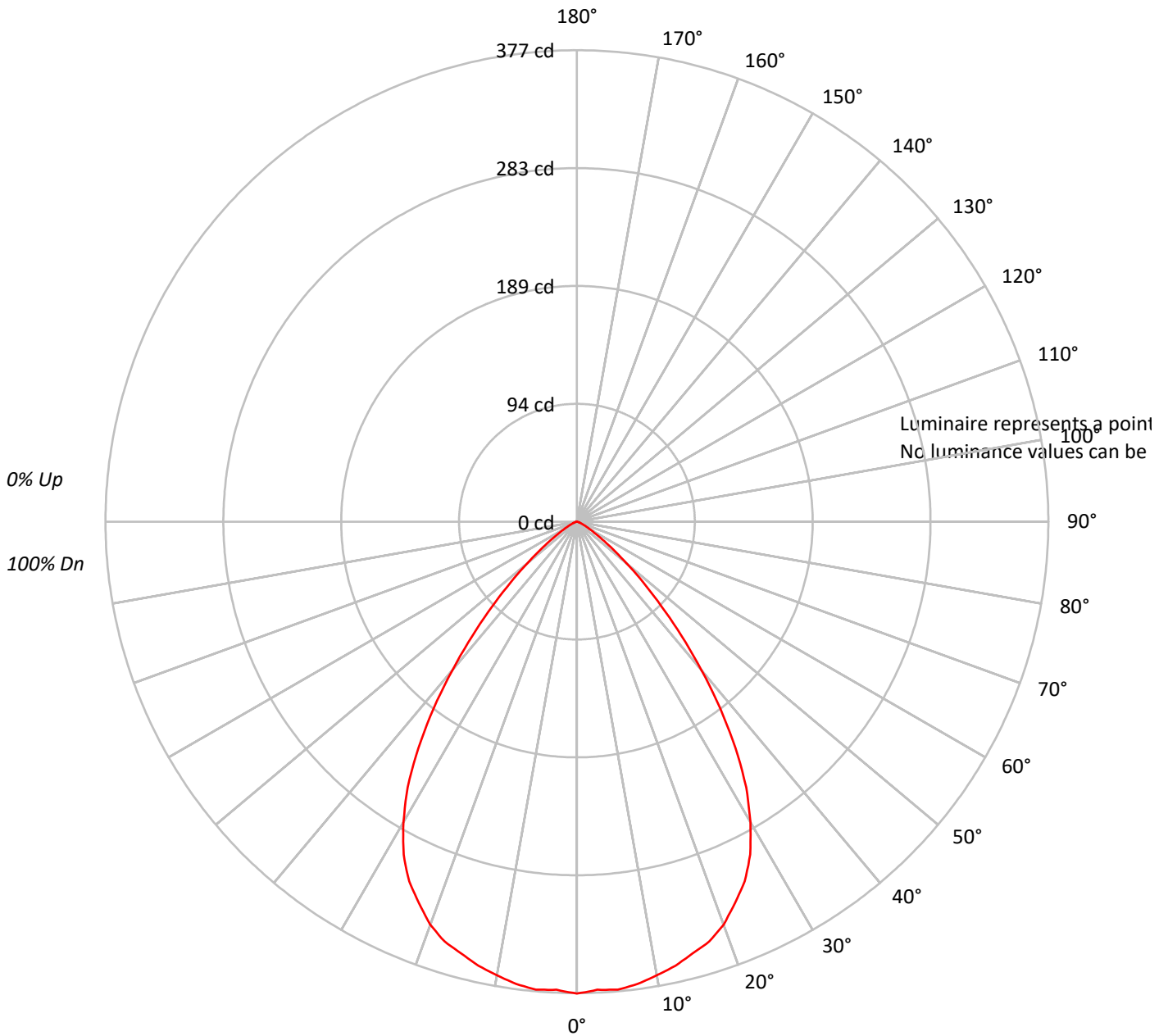
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210884

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBWGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P210884

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBWGPH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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: P210884

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBWGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	6.8
10°-20°	100.9	19.2
20°-30°	144.7	27.6
30°-40°	136.2	26.0
40°-50°	75.2	14.3
50°-60°	24.1	4.6
60°-70°	6.0	1.2
70°-80°	1.4	0.3
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°	281.2	53.6
0°-40°	417.4	79.6
0°-60°	516.8	98.6
0°-90°	524.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	377	
5°	376	36
15°	357	101
25°	317	145
35°	221	136
45°	96	75
55°	25	24
65°	6	6
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P210884

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBWGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	377.4
2.5°	374.7
5°	375.6
7.5°	372.9
10°	368.3
12.5°	363.8
15°	357.4
17.5°	352.0
20°	342.9
22.5°	330.1
25°	317.4
27.5°	300.1
30°	277.4
32.5°	251.9
35°	221.0
37.5°	188.3
40°	154.6
42.5°	123.7
45°	95.5
47.5°	71.8
50°	51.8
52.5°	36.4
55°	24.6
57.5°	16.4
60°	11.8
62.5°	8.2
65°	5.5
67.5°	3.6
70°	2.7
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)