

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: P211902

Luminaire Tested: **LSR4B30D010BZ EC4B30509027 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211902
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: LSR4B30D010BZ EC4B30509027 4LBWMW1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.4 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

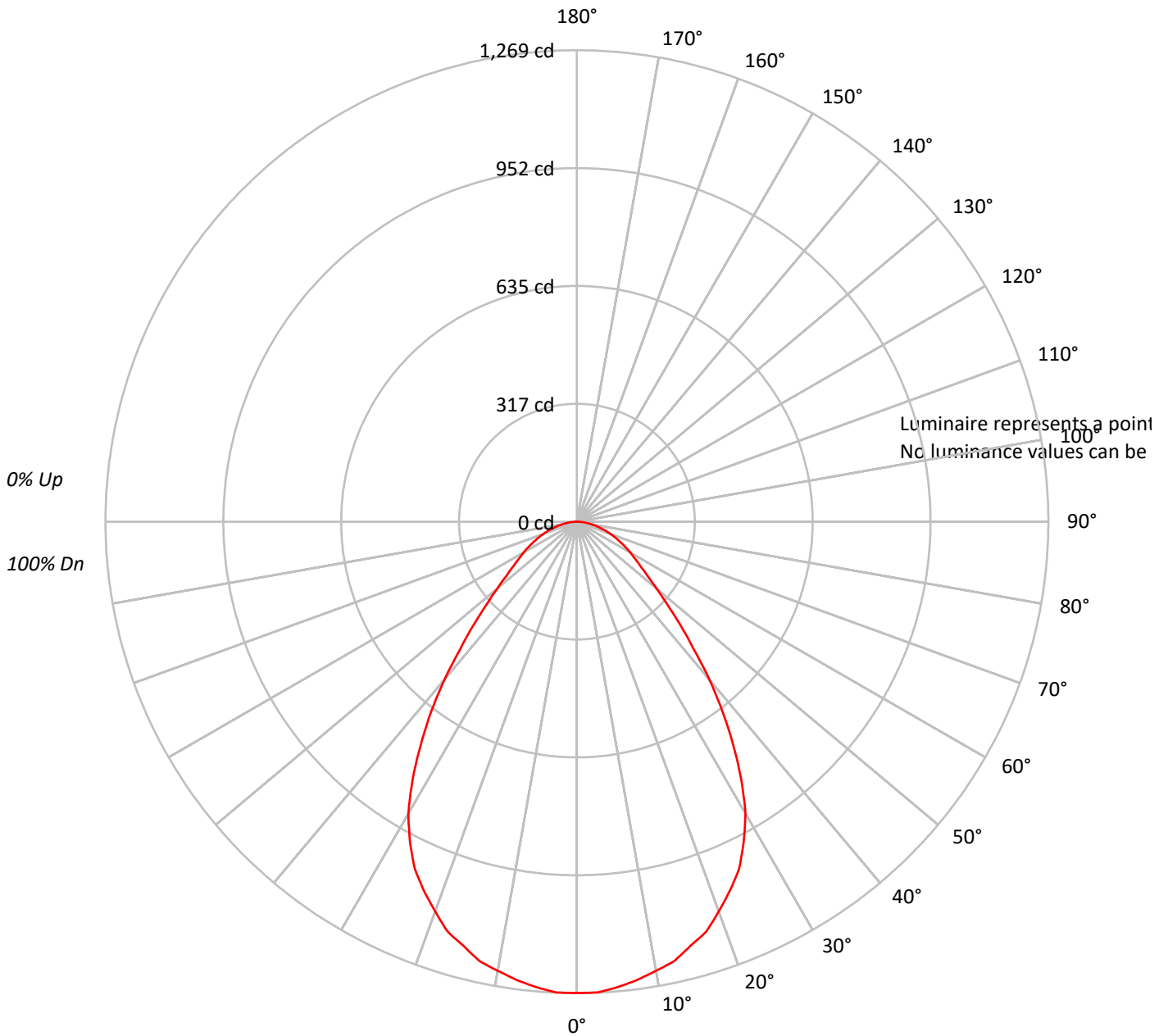
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211902

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211902

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBWMW1

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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																																				
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																																				
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																																				
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61																																				
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55																																				
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50																																				
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45																																				
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41																																				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38																																				
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35																																				

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211902

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	5.7
10°-20°	333.1	15.9
20°-30°	470.7	22.5
30°-40°	456.0	21.8
40°-50°	307.7	14.7
50°-60°	191.0	9.1
60°-70°	127.7	6.1
70°-80°	69.8	3.3
80°-90°	18.5	0.9
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°	922.9	44.1
0°-40°	1378.9	65.9
0°-60°	1877.5	89.7
0°-90°	2093.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1269	
5°	1258	119
15°	1182	333
25°	1032	471
35°	733	456
45°	394	308
55°	209	191
65°	128	128
75°	65	70
85°	16	18
90°	0	



TEST NUMBER: P211902

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBWMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1268.6
2.5°	1268.6
5°	1257.7
7.5°	1244.1
10°	1227.8
12.5°	1211.5
15°	1181.6
17.5°	1157.2
20°	1116.4
22.5°	1075.7
25°	1032.2
27.5°	972.5
30°	907.3
32.5°	823.1
35°	733.4
37.5°	643.8
40°	554.1
42.5°	464.5
45°	393.9
47.5°	328.7
50°	279.8
52.5°	239.0
55°	209.2
57.5°	184.7
60°	165.7
62.5°	146.7
65°	127.7
67.5°	111.4
70°	95.1
72.5°	81.5
75°	65.2
77.5°	51.6
80°	38.0
82.5°	27.2
85°	16.3
87.5°	5.4
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)