

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: P212036

Luminaire Tested: **LSR4B30D010BZ EC4B30508035 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212036
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 EC4B30508035 4LBSB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR BLACK 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: 2581.6 lumens
Efficiency: N/A
Efficacy: 92.2 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

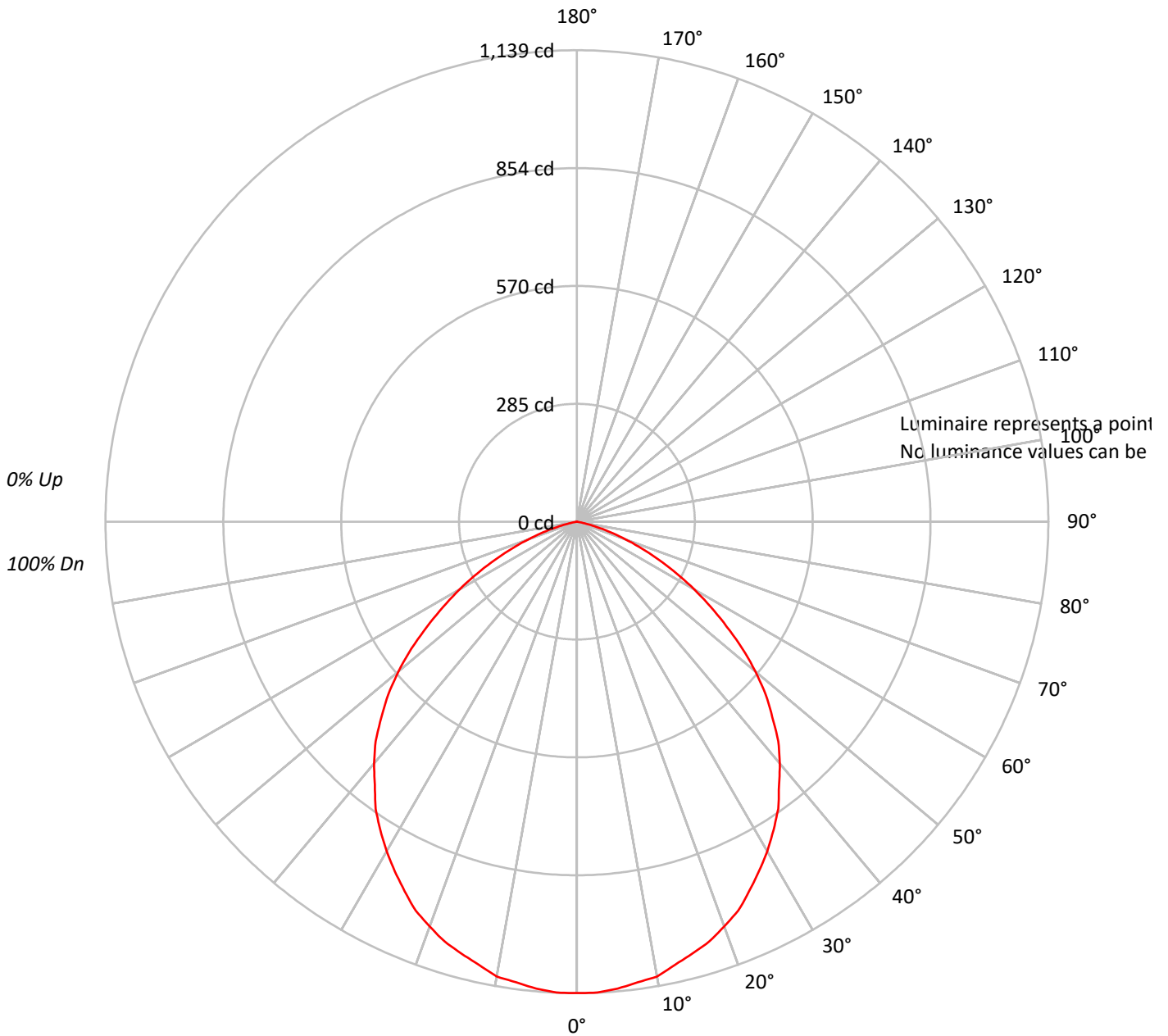
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	4.2
10°-20°	305.0	11.8
20°-30°	453.7	17.6
30°-40°	527.9	20.4
40°-50°	514.6	19.9
50°-60°	395.8	15.3
60°-70°	218.8	8.5
70°-80°	58.0	2.2
80°-90°	0.4	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°	866.1	33.5
0°-40°	1394.0	54.0
0°-60°	2304.4	89.3
0°-90°	2581.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1139	
5°	1132	107
15°	1080	305
25°	985	454
35°	848	528
45°	668	515
55°	442	396
65°	219	219
75°	49	58
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1138.8
2.5°	1138.8
5°	1132.3
7.5°	1122.4
10°	1115.9
12.5°	1096.3
15°	1079.9
17.5°	1063.5
20°	1040.6
22.5°	1017.7
25°	985.0
27.5°	952.3
30°	919.6
32.5°	883.6
35°	847.6
37.5°	801.7
40°	762.5
42.5°	719.9
45°	667.6
47.5°	618.5
50°	562.9
52.5°	504.0
55°	441.8
57.5°	382.9
60°	327.2
62.5°	271.6
65°	219.3
67.5°	170.2
70°	124.4
72.5°	85.1
75°	49.1
77.5°	22.9
80°	3.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)