

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: P211965

Luminaire Tested: **LSR4B30D010BZ EC4B30509030 4LBMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211965
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 EC4B30509030 4LBMB1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 1026.1 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

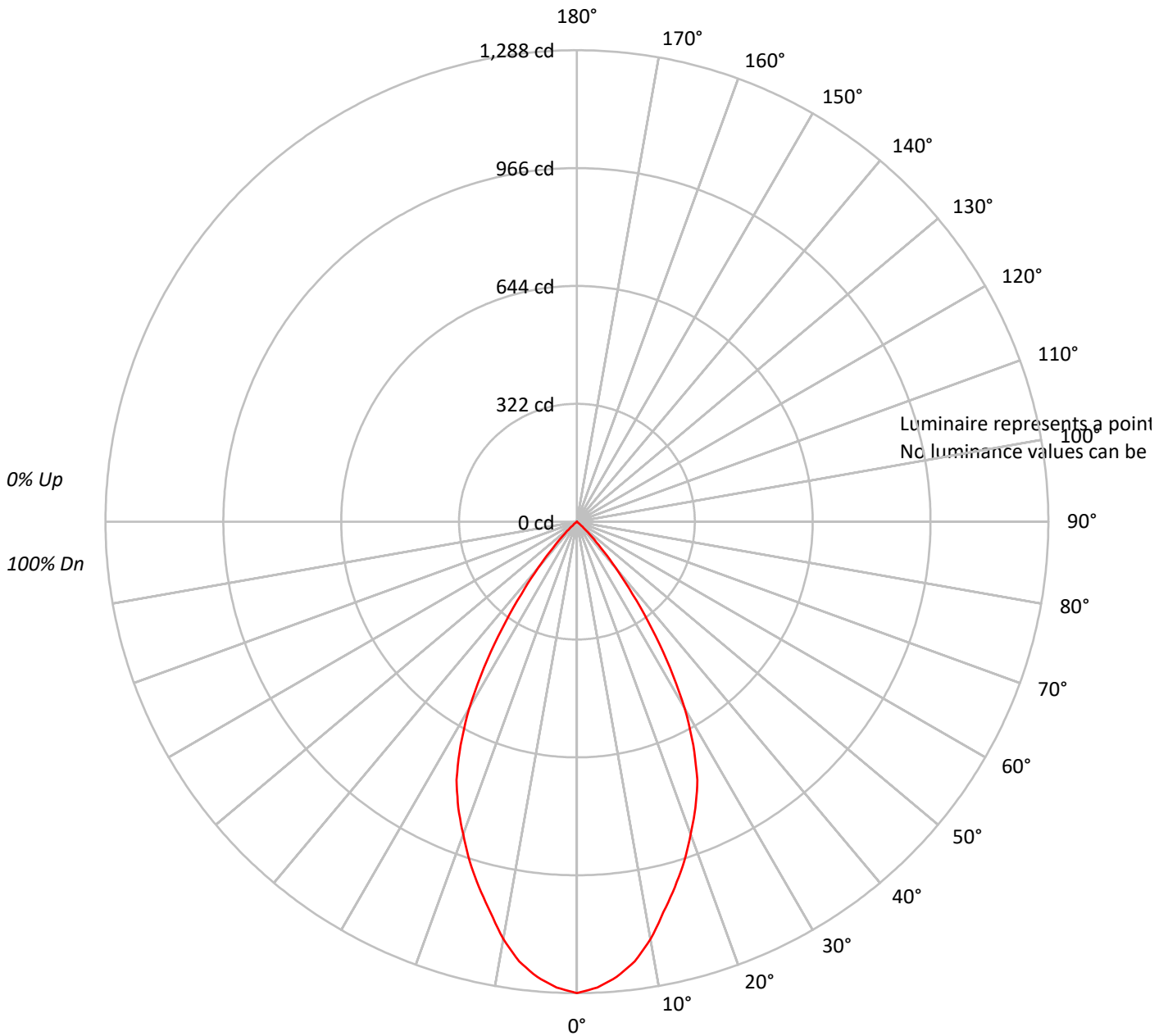
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88								
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82								
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77								
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72								
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67								
7	84	75	70	65	83	75	69	65	73	68	65	72	68	65	71	67	64	63								
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59								
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56								
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52								

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	11.3
10°-20°	289.4	28.2
20°-30°	350.0	34.1
30°-40°	223.2	21.8
40°-50°	46.6	4.5
50°-60°	0.6	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	755.7	73.6
0°-40°	978.9	95.4
0°-60°	1026.1	100.0
0°-90°	1026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1288	
5°	1248	116
15°	1033	289
25°	778	350
35°	357	223
45°	48	47
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1288.1
2.5°	1273.9
5°	1248.4
7.5°	1211.6
10°	1157.8
12.5°	1092.7
15°	1033.3
17.5°	973.8
20°	908.7
22.5°	846.4
25°	778.5
27.5°	687.9
30°	588.8
32.5°	472.8
35°	356.7
37.5°	249.1
40°	164.2
42.5°	96.3
45°	48.1
47.5°	19.8
50°	5.7
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)