

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: P211986

Luminaire Tested: **LSR4B30D010BZ EC4B30509030 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211986
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 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 1631.0 lumens
Efficiency: N/A
Efficacy: 58.3 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

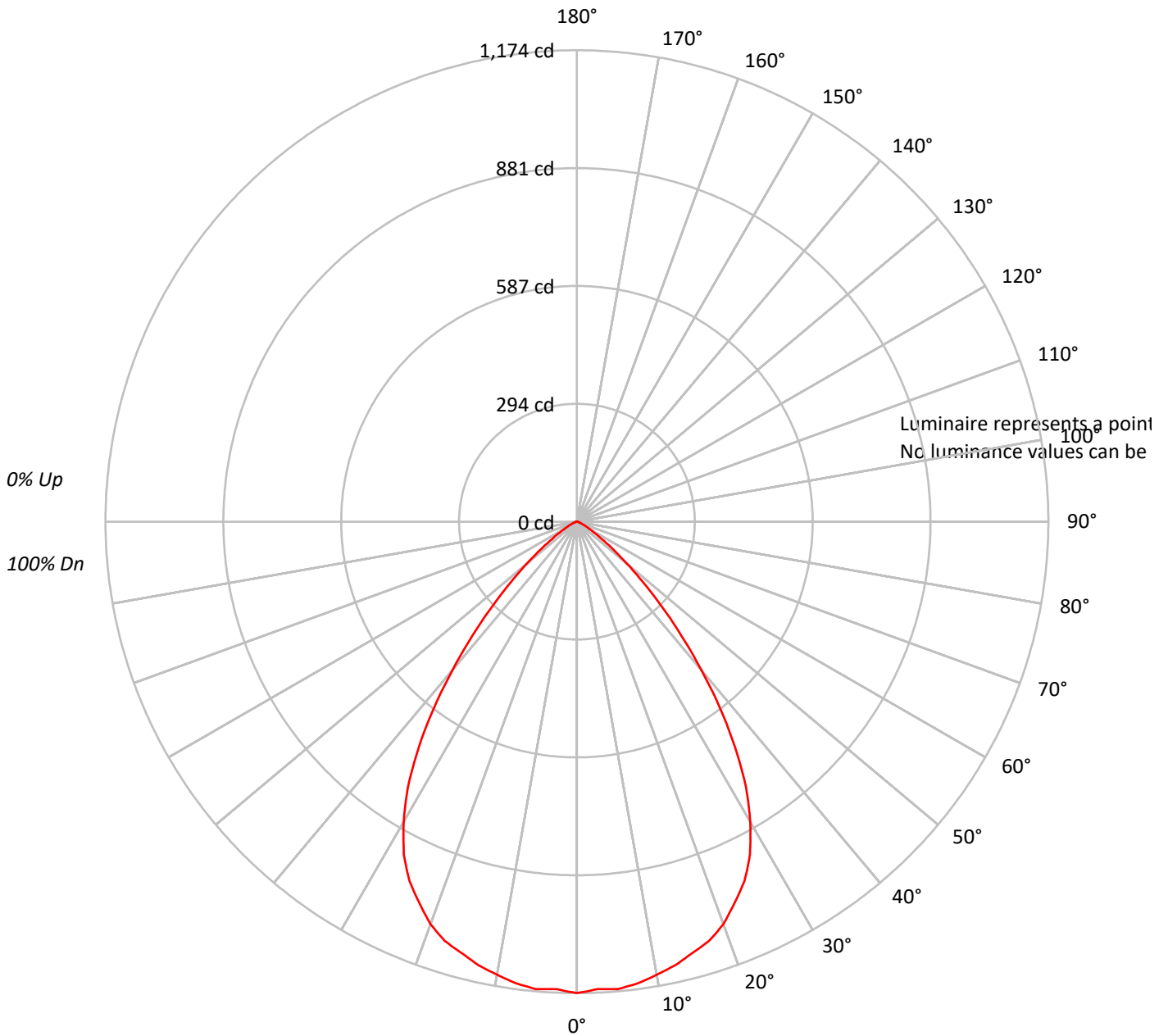
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92						92													
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83						83													
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76						76													
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69						69													
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63						63													
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57						57													
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53						53													
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48						48													
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45						45													
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41						41													

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	6.8
10°-20°	313.8	19.2
20°-30°	450.0	27.6
30°-40°	423.7	26.0
40°-50°	234.0	14.3
50°-60°	75.1	4.6
60°-70°	18.8	1.2
70°-80°	4.5	0.3
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°	874.6	53.6
0°-40°	1298.3	79.6
0°-60°	1607.4	98.6
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1174	
5°	1168	111
15°	1112	314
25°	987	450
35°	687	424
45°	297	234
55°	76	75
65°	17	19
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1173.9
2.5°	1165.4
5°	1168.3
7.5°	1159.8
10°	1145.6
12.5°	1131.5
15°	1111.7
17.5°	1094.7
20°	1066.4
22.5°	1026.8
25°	987.2
27.5°	933.5
30°	862.8
32.5°	783.6
35°	687.4
37.5°	585.5
40°	480.9
42.5°	384.7
45°	297.0
47.5°	223.5
50°	161.2
52.5°	113.1
55°	76.4
57.5°	50.9
60°	36.8
62.5°	25.5
65°	17.0
67.5°	11.3
70°	8.5
72.5°	5.7
75°	2.8
77.5°	2.8
80°	2.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)