

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: P212149

Luminaire Tested: **LSR4B30D010BZ EC4B30508050 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212149
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 EC4B30508050 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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

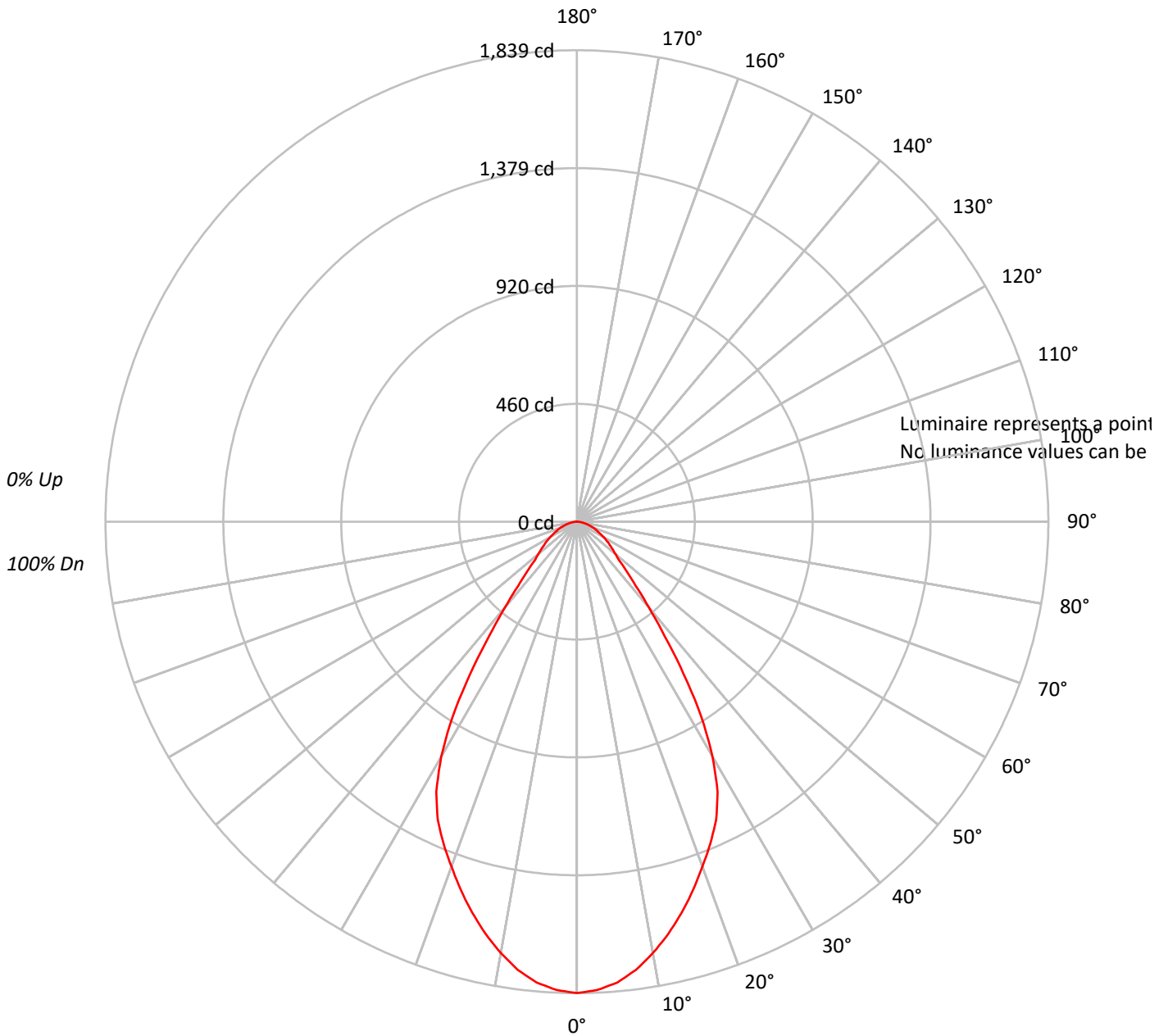
Lumens per Lamp: N/A
Luminaire Lumens: 2155.3 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	7.8
10°-20°	442.6	20.5
20°-30°	582.5	27.0
30°-40°	453.4	21.0
40°-50°	220.2	10.2
50°-60°	139.1	6.5
60°-70°	89.7	4.2
70°-80°	46.9	2.2
80°-90°	11.6	0.5
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°	1194.2	55.4
0°-40°	1647.7	76.4
0°-60°	2007.0	93.1
0°-90°	2155.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1839	
5°	1804	169
15°	1578	443
25°	1284	582
35°	726	453
45°	274	220
55°	154	139
65°	89	90
75°	44	47
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1838.7
2.5°	1828.4
5°	1804.4
7.5°	1763.4
10°	1708.6
12.5°	1646.9
15°	1578.5
17.5°	1506.6
20°	1431.2
22.5°	1359.3
25°	1284.0
27.5°	1188.1
30°	1058.0
32.5°	903.9
35°	725.9
37.5°	561.5
40°	434.8
42.5°	339.0
45°	273.9
47.5°	222.6
50°	195.2
52.5°	174.6
55°	154.1
57.5°	137.0
60°	119.8
62.5°	102.7
65°	89.0
67.5°	78.8
70°	65.1
72.5°	54.8
75°	44.5
77.5°	34.2
80°	24.0
82.5°	17.1
85°	10.3
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)