

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: P211547

Luminaire Tested: **LSR4B20D010BZ EC4B10209727 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211547
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: LSR4B20D010BZ EC4B10209727 4LBSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1481.4 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

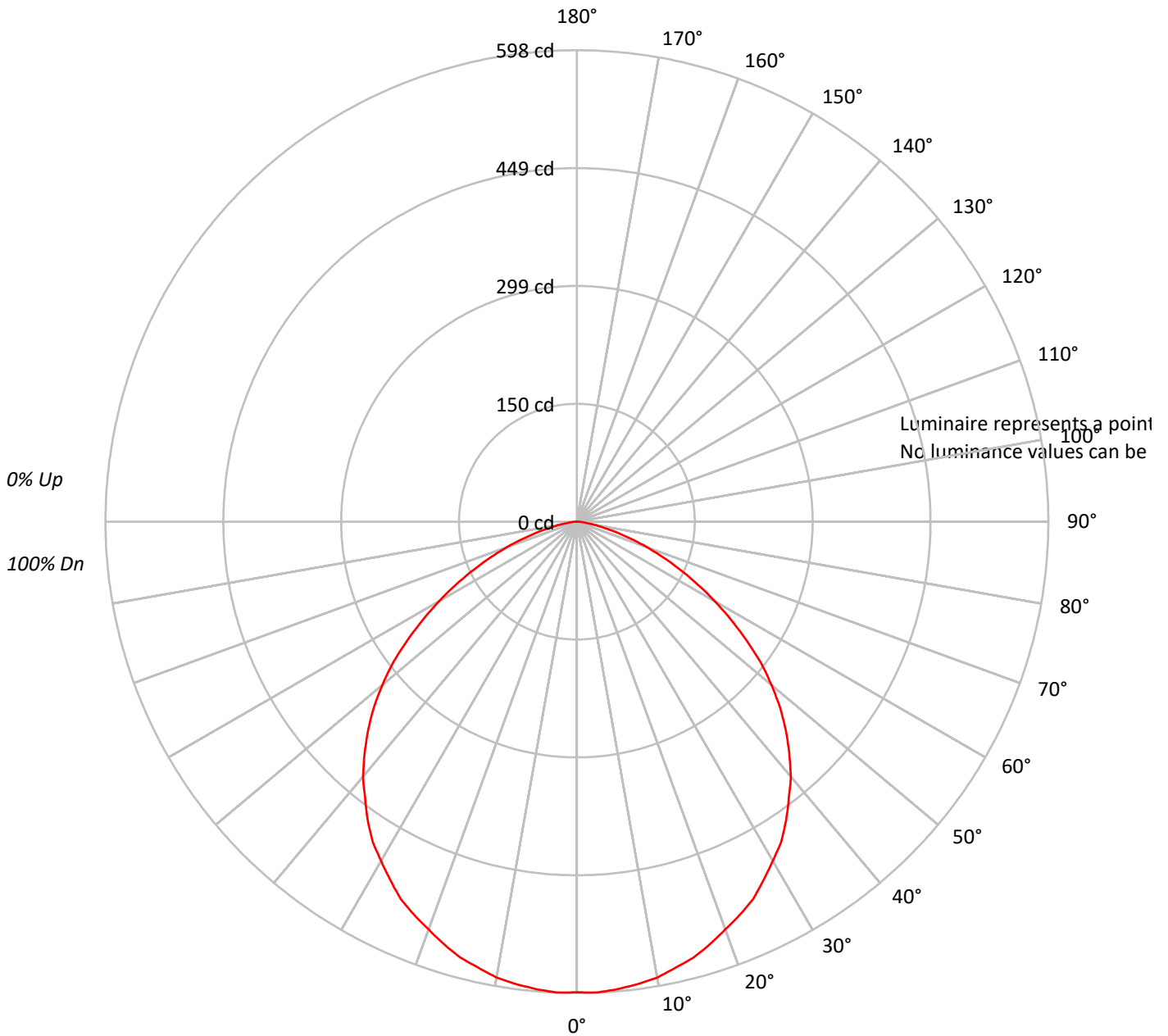
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47				47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.8
10°-20°	161.2	10.9
20°-30°	242.8	16.4
30°-40°	288.9	19.5
40°-50°	288.4	19.5
50°-60°	234.5	15.8
60°-70°	144.3	9.7
70°-80°	55.9	3.8
80°-90°	8.9	0.6
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°	460.5	31.1
0°-40°	749.4	50.6
0°-60°	1272.3	85.9
0°-90°	1481.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	595	57
15°	572	161
25°	528	243
35°	463	289
45°	375	288
55°	262	235
65°	145	144
75°	51	56
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	596.9
2.5°	597.8
5°	595.1
7.5°	591.6
10°	587.2
12.5°	579.3
15°	572.3
17.5°	561.8
20°	550.4
22.5°	539.8
25°	528.4
27.5°	512.6
30°	496.8
32.5°	481.9
35°	462.6
37.5°	441.5
40°	422.2
42.5°	398.5
45°	374.8
47.5°	349.4
50°	322.1
52.5°	294.1
55°	262.5
57.5°	231.7
60°	201.9
62.5°	172.9
65°	144.8
67.5°	118.5
70°	93.9
72.5°	71.1
75°	50.9
77.5°	33.4
80°	20.2
82.5°	12.3
85°	7.0
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)