

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: P207789

Luminaire Tested: **LD4B30D010 EU4B30509030 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207789
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: LD4B30D010 EU4B30509030 4LBNGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH 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: 1167.4 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

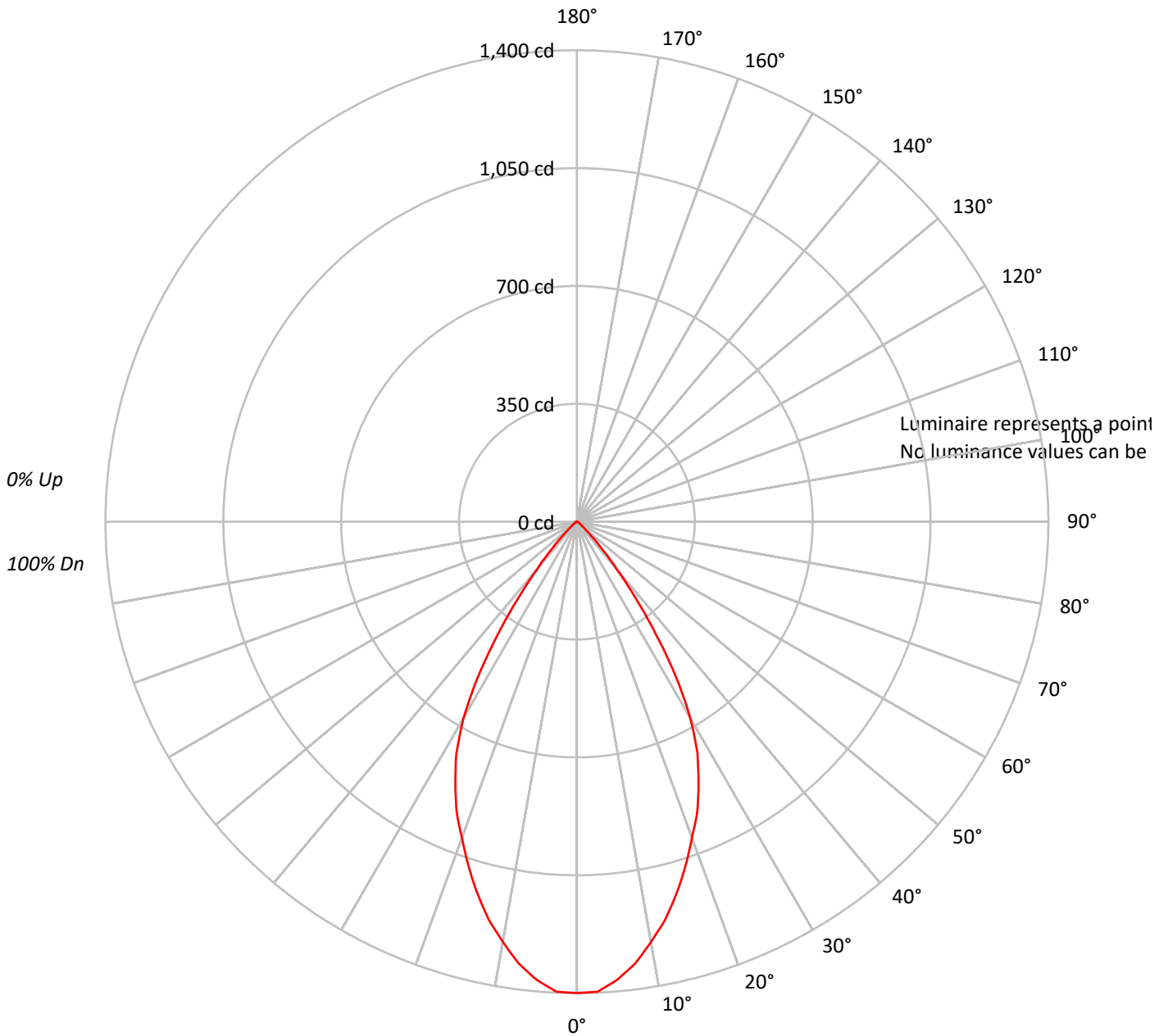
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																												
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																												
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																												
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																												
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																												
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66																												
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																												
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58																												
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																												
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	10.9
10°-20°	319.1	27.3
20°-30°	388.9	33.3
30°-40°	256.6	22.0
40°-50°	59.1	5.1
50°-60°	11.3	1.0
60°-70°	4.2	0.4
70°-80°	1.1	0.1
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°	835.2	71.5
0°-40°	1091.8	93.5
0°-60°	1162.2	99.5
0°-90°	1167.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1400	
5°	1366	127
15°	1143	319
25°	854	389
35°	410	257
45°	65	59
55°	11	11
65°	3	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1400.0
2.5°	1397.2
5°	1366.1
7.5°	1323.6
10°	1267.1
12.5°	1210.5
15°	1142.6
17.5°	1071.9
20°	998.4
22.5°	933.3
25°	854.1
27.5°	775.0
30°	673.1
32.5°	548.7
35°	410.1
37.5°	285.7
40°	183.8
42.5°	113.1
45°	65.1
47.5°	33.9
50°	19.8
52.5°	17.0
55°	11.3
57.5°	8.5
60°	8.5
62.5°	5.7
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
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)