

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: P207273

Luminaire Tested: **LD4B30D010 EU4B30509027 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207273
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 EU4B30509027 4LBMWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WHEAT 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: 1840.6 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

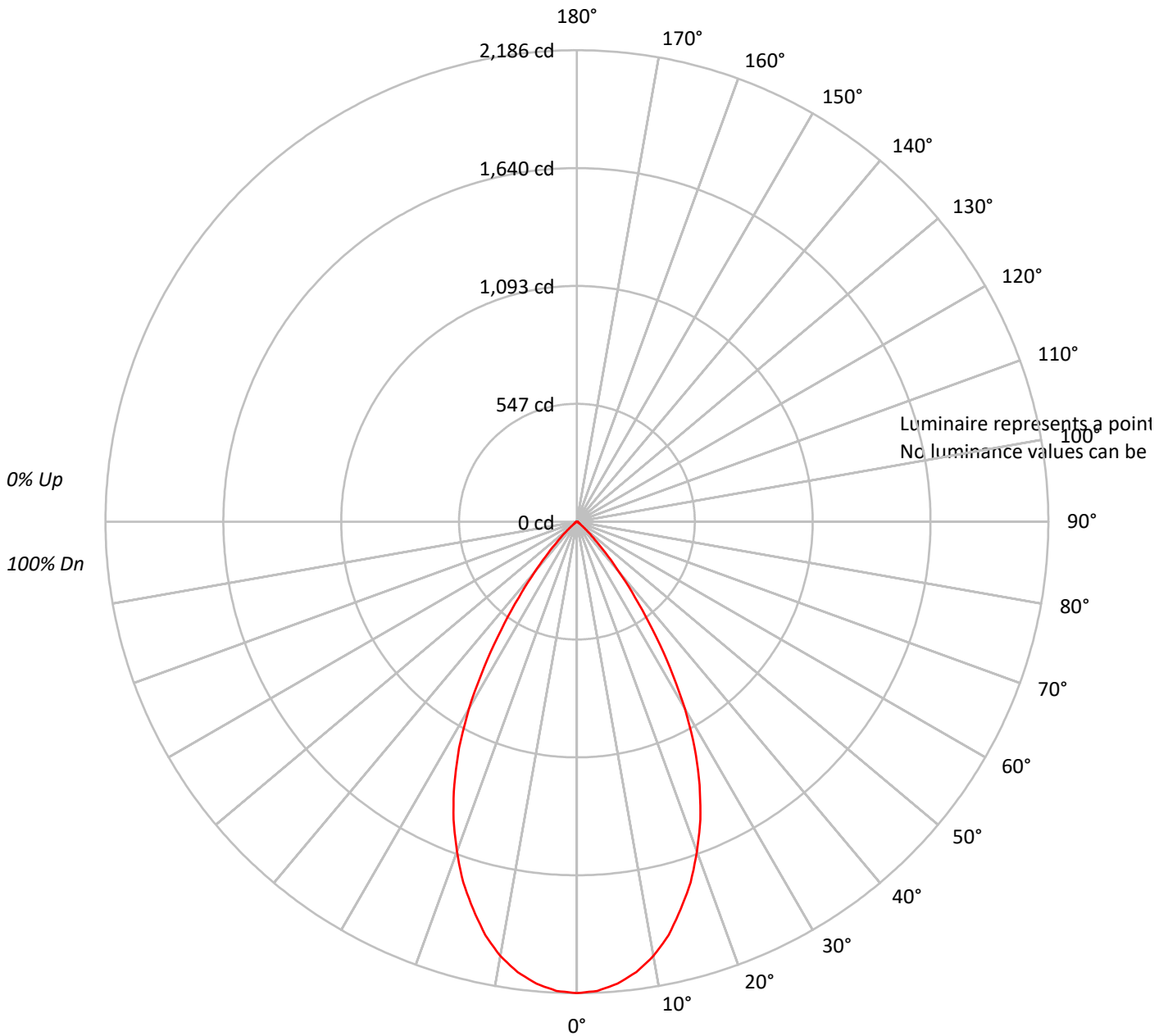
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	105	105	103	101	101	100	98	98	96	95	94																												
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																												
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																												
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																												
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																												
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																												
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62																												
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																												
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																												
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	11.0
10°-20°	519.2	28.2
20°-30°	609.1	33.1
30°-40°	385.5	20.9
40°-50°	103.3	5.6
50°-60°	14.4	0.8
60°-70°	5.3	0.3
70°-80°	1.8	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°	1330.3	72.3
0°-40°	1715.8	93.2
0°-60°	1833.5	99.6
0°-90°	1840.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2186	
5°	2151	202
15°	1860	519
25°	1346	609
35°	612	385
45°	117	103
55°	14	14
65°	5	5
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2186.0
2.5°	2177.8
5°	2150.6
7.5°	2107.1
10°	2044.6
12.5°	1963.0
15°	1859.7
17.5°	1753.7
20°	1625.9
22.5°	1495.4
25°	1345.8
27.5°	1182.7
30°	1000.5
32.5°	802.1
35°	611.7
37.5°	443.2
40°	304.5
42.5°	195.8
45°	116.9
47.5°	65.3
50°	35.3
52.5°	19.0
55°	13.6
57.5°	10.9
60°	8.2
62.5°	8.2
65°	5.4
67.5°	2.7
70°	2.7
72.5°	2.7
75°	2.7
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)