

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: P205932

Luminaire Tested: **LD4B30D010 EU4B30509035 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205932
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 EU4B30509035 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 2277.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

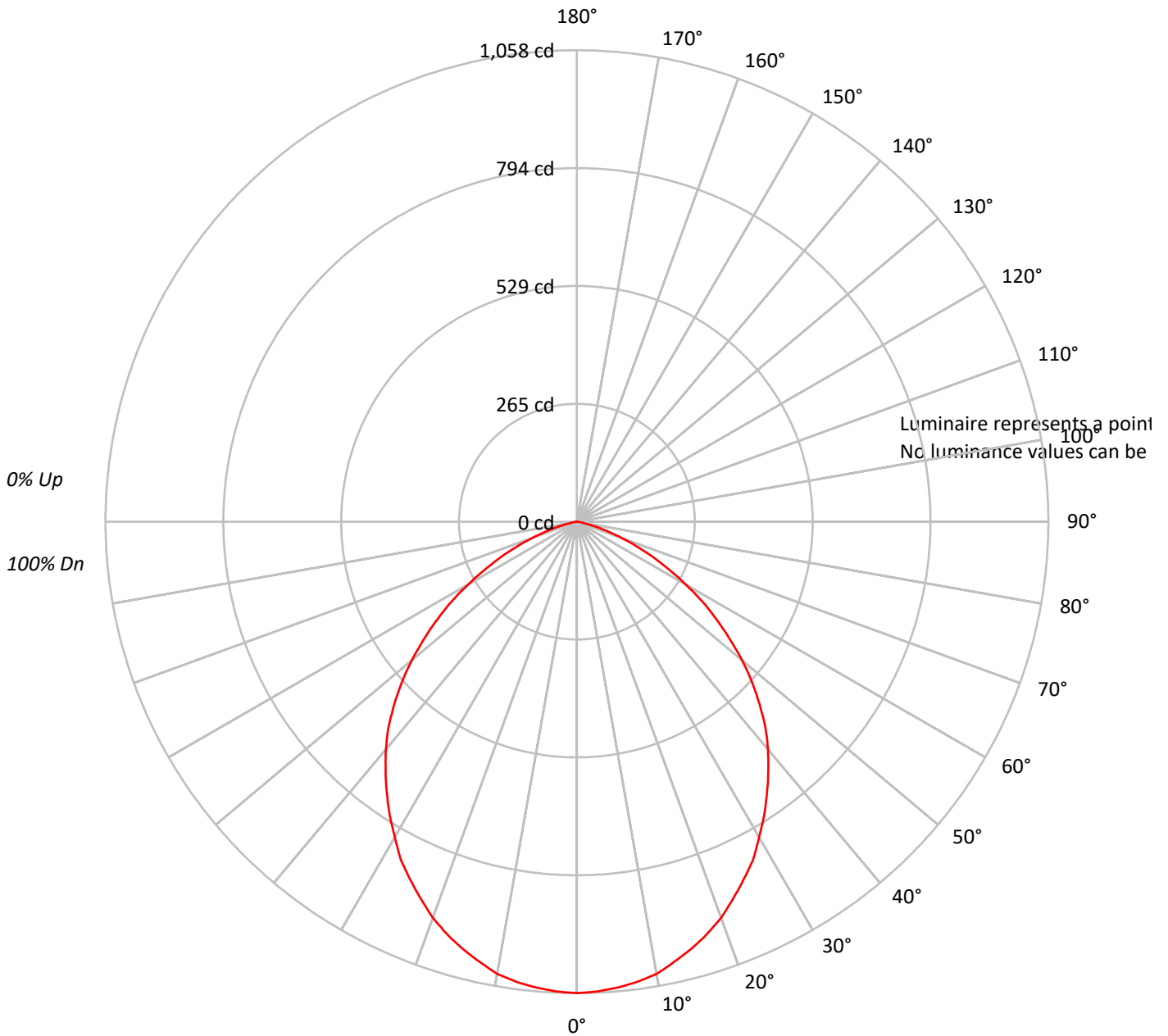
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			32
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	4.4
10°-20°	279.6	12.3
20°-30°	407.8	17.9
30°-40°	465.0	20.4
40°-50°	446.1	19.6
50°-60°	341.6	15.0
60°-70°	187.5	8.2
70°-80°	49.8	2.2
80°-90°	0.7	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°	787.0	34.6
0°-40°	1252.0	55.0
0°-60°	2039.8	89.5
0°-90°	2277.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1058	
5°	1050	100
15°	992	280
25°	886	408
35°	744	465
45°	580	446
55°	383	342
65°	189	187
75°	44	50
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1057.9
2.5°	1055.2
5°	1049.7
7.5°	1041.5
10°	1030.6
12.5°	1011.5
15°	992.3
17.5°	970.5
20°	945.8
22.5°	915.8
25°	885.7
27.5°	855.6
30°	817.4
32.5°	781.8
35°	743.6
37.5°	705.3
40°	667.0
42.5°	626.0
45°	579.5
47.5°	533.1
50°	483.9
52.5°	431.9
55°	382.7
57.5°	333.5
60°	281.6
62.5°	232.4
65°	188.6
67.5°	144.9
70°	106.6
72.5°	71.1
75°	43.7
77.5°	19.1
80°	5.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)