

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: P205957

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205957
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: LD4B50D010TE EU4B30509030 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4001.0 lumens
Efficiency: N/A
Efficacy: 68.1 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

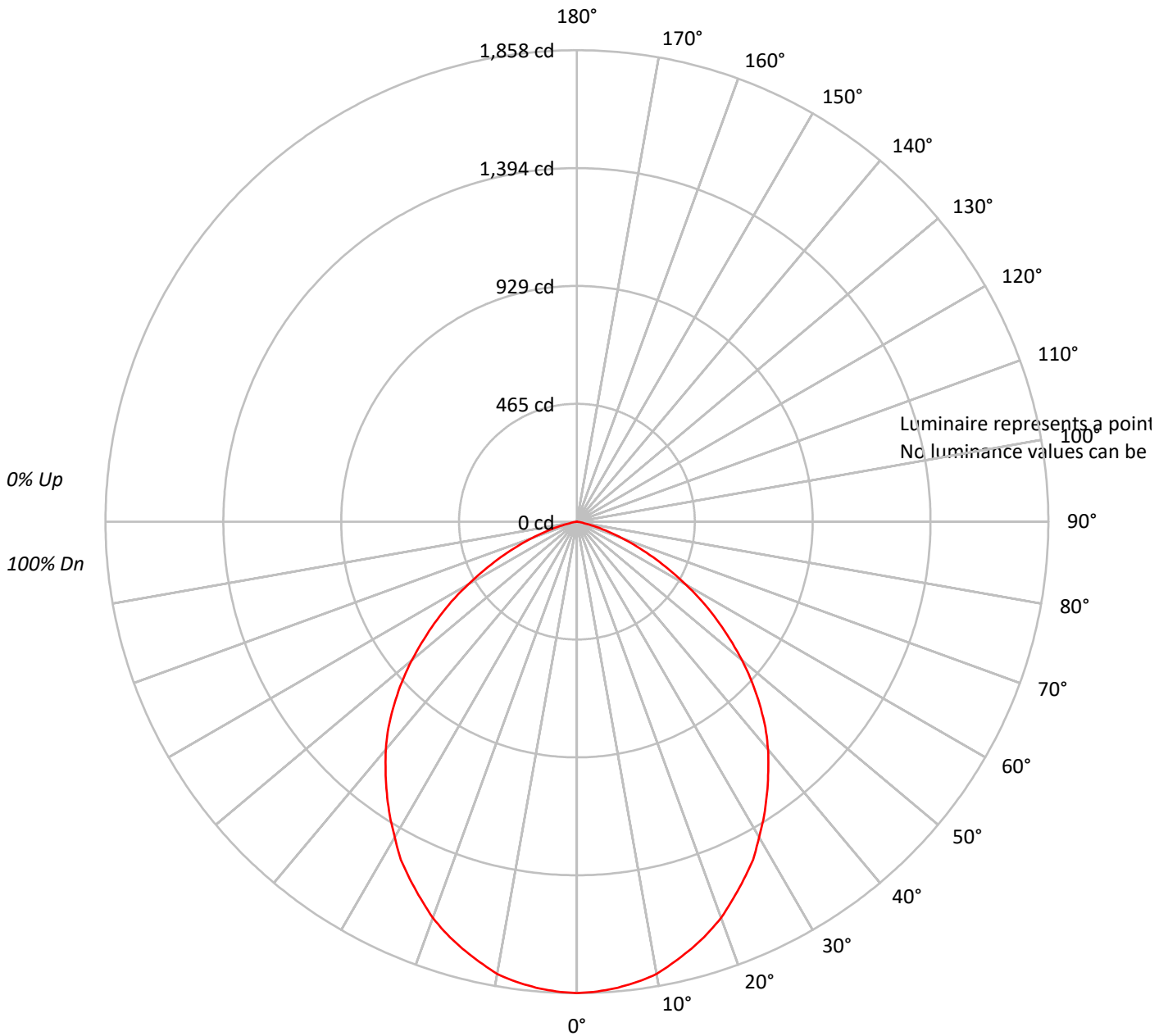
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	4.4
10°-20°	491.1	12.3
20°-30°	716.3	17.9
30°-40°	816.8	20.4
40°-50°	783.5	19.6
50°-60°	600.1	15.0
60°-70°	329.3	8.2
70°-80°	87.5	2.2
80°-90°	1.3	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°	1382.3	34.6
0°-40°	2199.2	55.0
0°-60°	3582.8	89.5
0°-90°	4001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1858	
5°	1844	175
15°	1743	491
25°	1556	716
35°	1306	817
45°	1018	784
55°	672	600
65°	331	329
75°	77	88
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1858.2
2.5°	1853.4
5°	1843.8
7.5°	1829.4
10°	1810.2
12.5°	1776.6
15°	1743.0
17.5°	1704.6
20°	1661.4
22.5°	1608.6
25°	1555.7
27.5°	1502.9
30°	1435.7
32.5°	1373.3
35°	1306.1
37.5°	1238.8
40°	1171.6
42.5°	1099.6
45°	1018.0
47.5°	936.3
50°	849.9
52.5°	758.7
55°	672.2
57.5°	585.8
60°	494.6
62.5°	408.1
65°	331.3
67.5°	254.5
70°	187.3
72.5°	124.8
75°	76.8
77.5°	33.6
80°	9.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)