

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: P206372

Luminaire Tested: **LD4B50D010TE EU4B30509027 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206372
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 EU4B30509027 4LBCSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4456.1 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

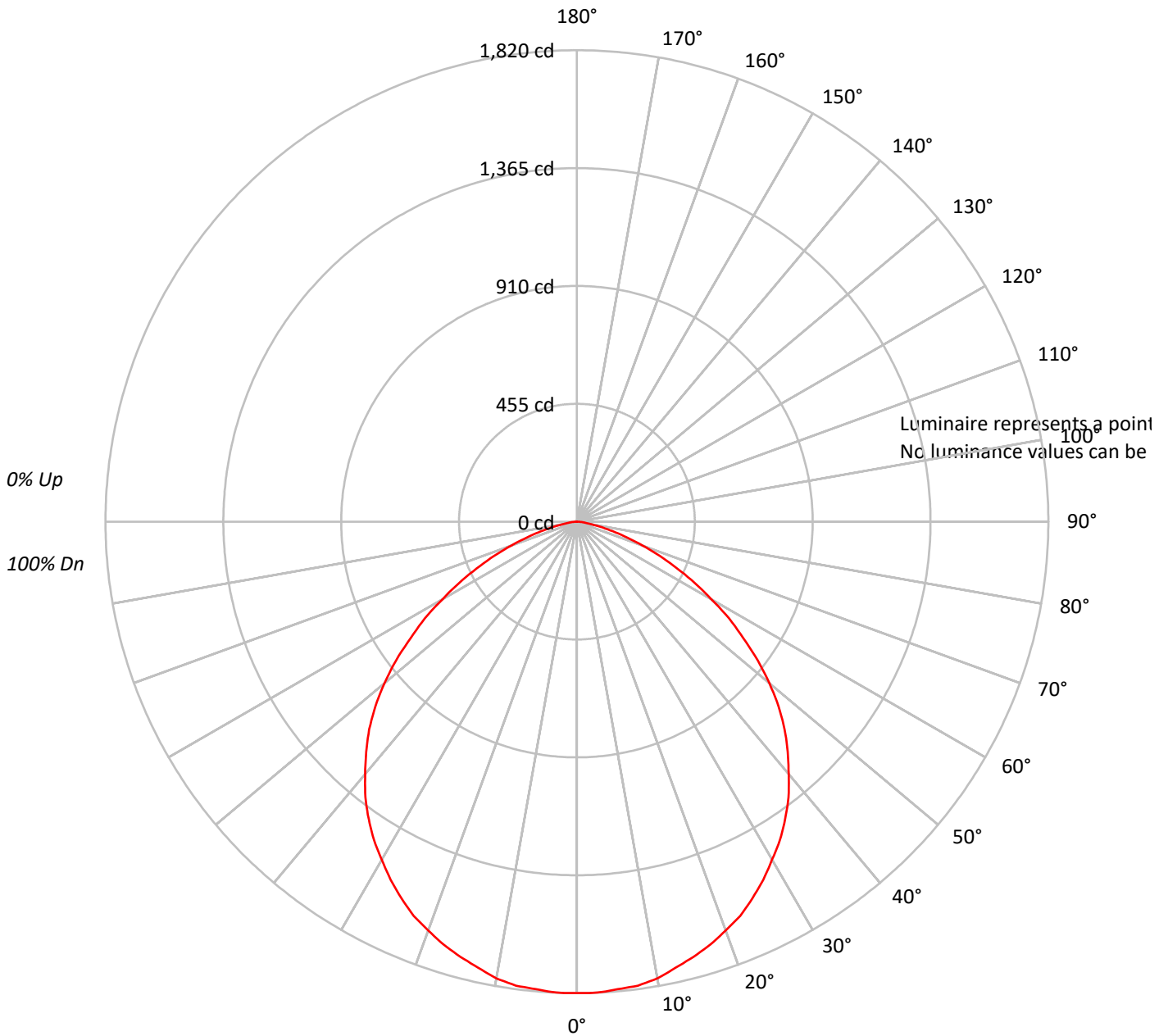
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	74	74	74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63	63	63	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55	55	55	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	33	33	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27	27	27	27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	3.9
10°-20°	490.9	11.0
20°-30°	738.5	16.6
30°-40°	875.2	19.6
40°-50°	871.0	19.5
50°-60°	702.1	15.8
60°-70°	424.8	9.5
70°-80°	157.7	3.5
80°-90°	23.5	0.5
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°	1401.9	31.5
0°-40°	2277.1	51.1
0°-60°	3850.2	86.4
0°-90°	4456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1820	
5°	1812	172
15°	1739	491
25°	1604	739
35°	1402	875
45°	1134	871
55°	783	702
65°	427	425
75°	143	158
85°	19	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1820.0
2.5°	1820.0
5°	1811.9
7.5°	1806.5
10°	1790.3
12.5°	1763.3
15°	1739.0
17.5°	1712.0
20°	1679.6
22.5°	1647.2
25°	1604.0
27.5°	1558.1
30°	1506.8
32.5°	1458.2
35°	1401.5
37.5°	1342.1
40°	1271.9
42.5°	1204.4
45°	1134.1
47.5°	1055.8
50°	969.4
52.5°	880.3
55°	783.1
57.5°	696.7
60°	599.5
62.5°	513.1
65°	426.7
67.5°	345.6
70°	270.0
72.5°	202.5
75°	143.1
77.5°	91.8
80°	54.0
82.5°	32.4
85°	18.9
87.5°	8.1
90°	0.0



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— 0°-180°







(END OF REPORT)