

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: P206477

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206477
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 EU4B30509040 4LBCSMB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 75.0 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

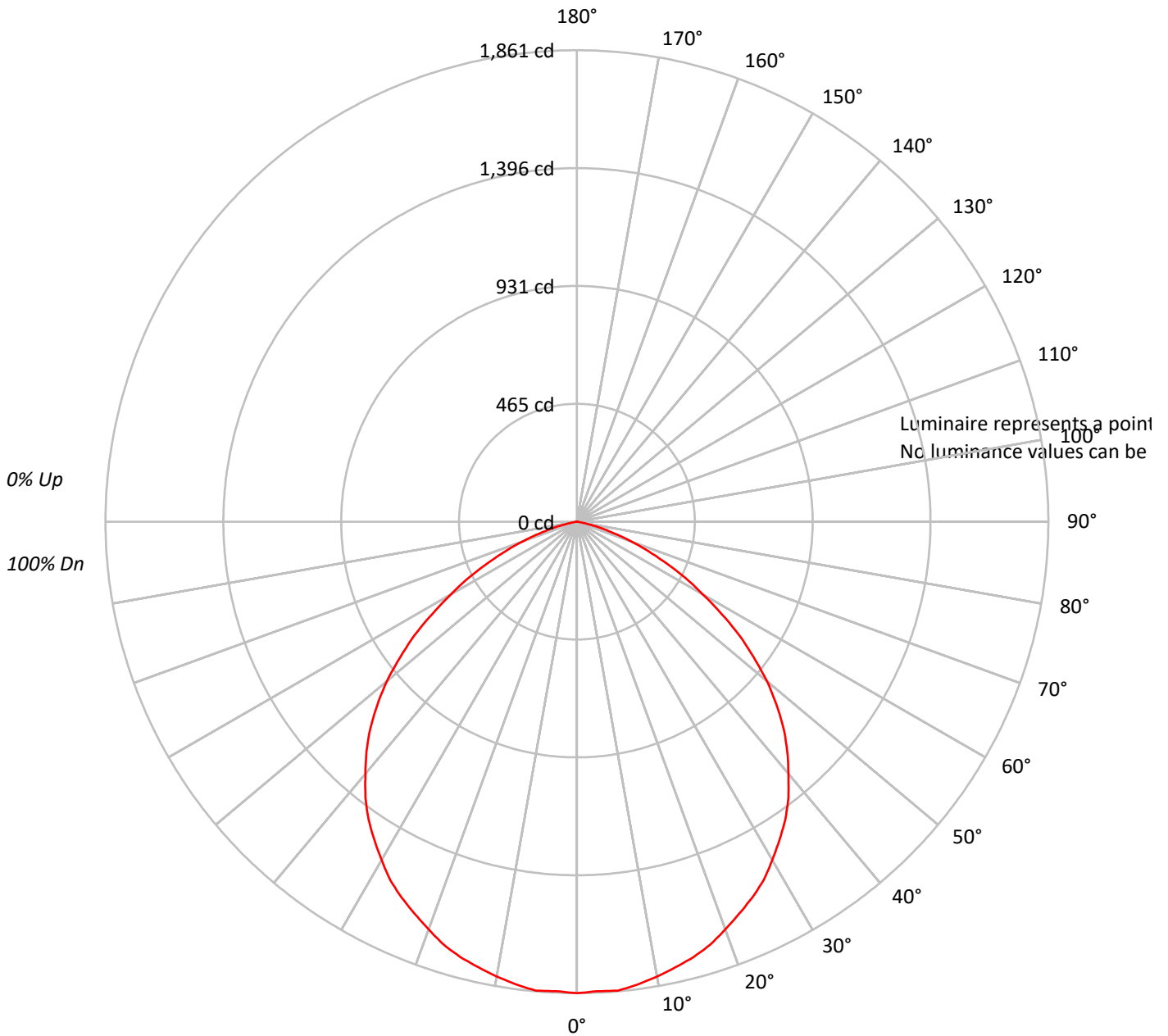
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39																			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	4.0
10°-20°	501.6	11.4
20°-30°	754.0	17.1
30°-40°	894.6	20.3
40°-50°	885.3	20.1
50°-60°	695.4	15.8
60°-70°	389.9	8.8
70°-80°	109.5	2.5
80°-90°	1.7	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°	1431.6	32.5
0°-40°	2326.3	52.8
0°-60°	3907.0	88.6
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1861	
5°	1858	176
15°	1779	502
25°	1637	754
35°	1435	895
45°	1154	885
55°	784	695
65°	389	390
75°	95	109
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1861.4
2.5°	1855.0
5°	1858.2
7.5°	1842.4
10°	1823.4
12.5°	1801.3
15°	1779.2
17.5°	1750.7
20°	1712.8
22.5°	1674.9
25°	1637.0
27.5°	1595.9
30°	1542.2
32.5°	1488.5
35°	1434.7
37.5°	1371.5
40°	1298.8
42.5°	1229.3
45°	1153.5
47.5°	1068.1
50°	979.7
52.5°	878.5
55°	783.7
57.5°	676.3
60°	575.2
62.5°	483.5
65°	388.7
67.5°	306.5
70°	227.5
72.5°	154.8
75°	94.8
77.5°	47.4
80°	12.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)