

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: P206167

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206167
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 4LB5MW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.7 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

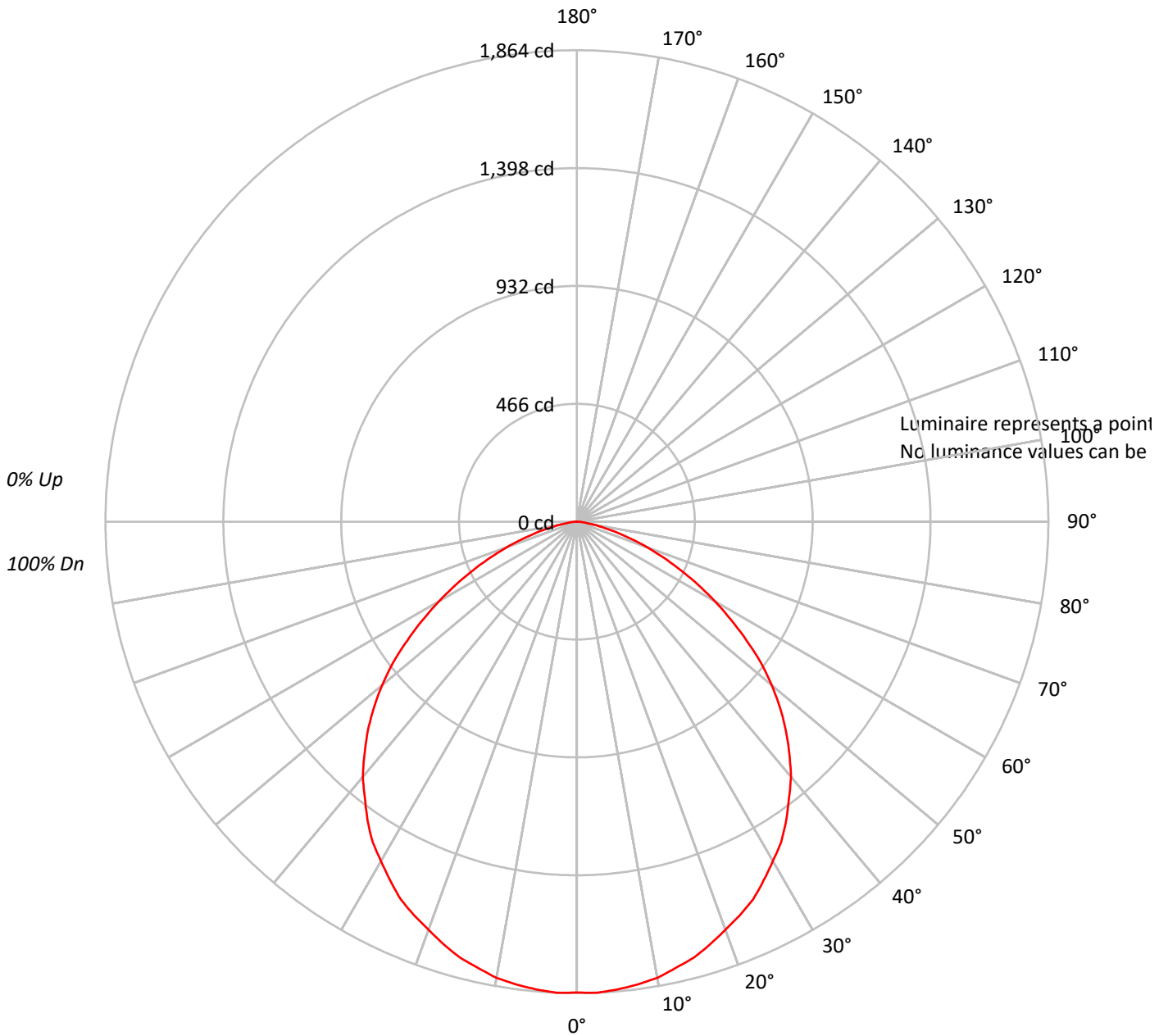
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63																			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47																			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.8
10°-20°	502.8	10.9
20°-30°	757.3	16.4
30°-40°	901.1	19.5
40°-50°	899.4	19.5
50°-60°	731.5	15.8
60°-70°	450.0	9.7
70°-80°	174.3	3.8
80°-90°	27.9	0.6
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°	1436.5	31.1
0°-40°	2337.5	50.6
0°-60°	3968.4	85.9
0°-90°	4620.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1862	
5°	1856	176
15°	1785	503
25°	1648	757
35°	1443	901
45°	1169	899
55°	819	731
65°	452	450
75°	159	174
85°	22	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1861.7
2.5°	1864.4
5°	1856.2
7.5°	1845.3
10°	1831.6
12.5°	1806.9
15°	1785.0
17.5°	1752.2
20°	1716.6
22.5°	1683.7
25°	1648.1
27.5°	1598.9
30°	1549.6
32.5°	1503.0
35°	1442.8
37.5°	1377.1
40°	1316.9
42.5°	1243.0
45°	1169.0
47.5°	1089.6
50°	1004.8
52.5°	917.2
55°	818.6
57.5°	722.8
60°	629.7
62.5°	539.3
65°	451.7
67.5°	369.6
70°	292.9
72.5°	221.8
75°	158.8
77.5°	104.0
80°	63.0
82.5°	38.3
85°	21.9
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)