

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: P206269

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206269
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 4LBPSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4734.2 lumens
Efficiency: N/A
Efficacy: 80.6 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

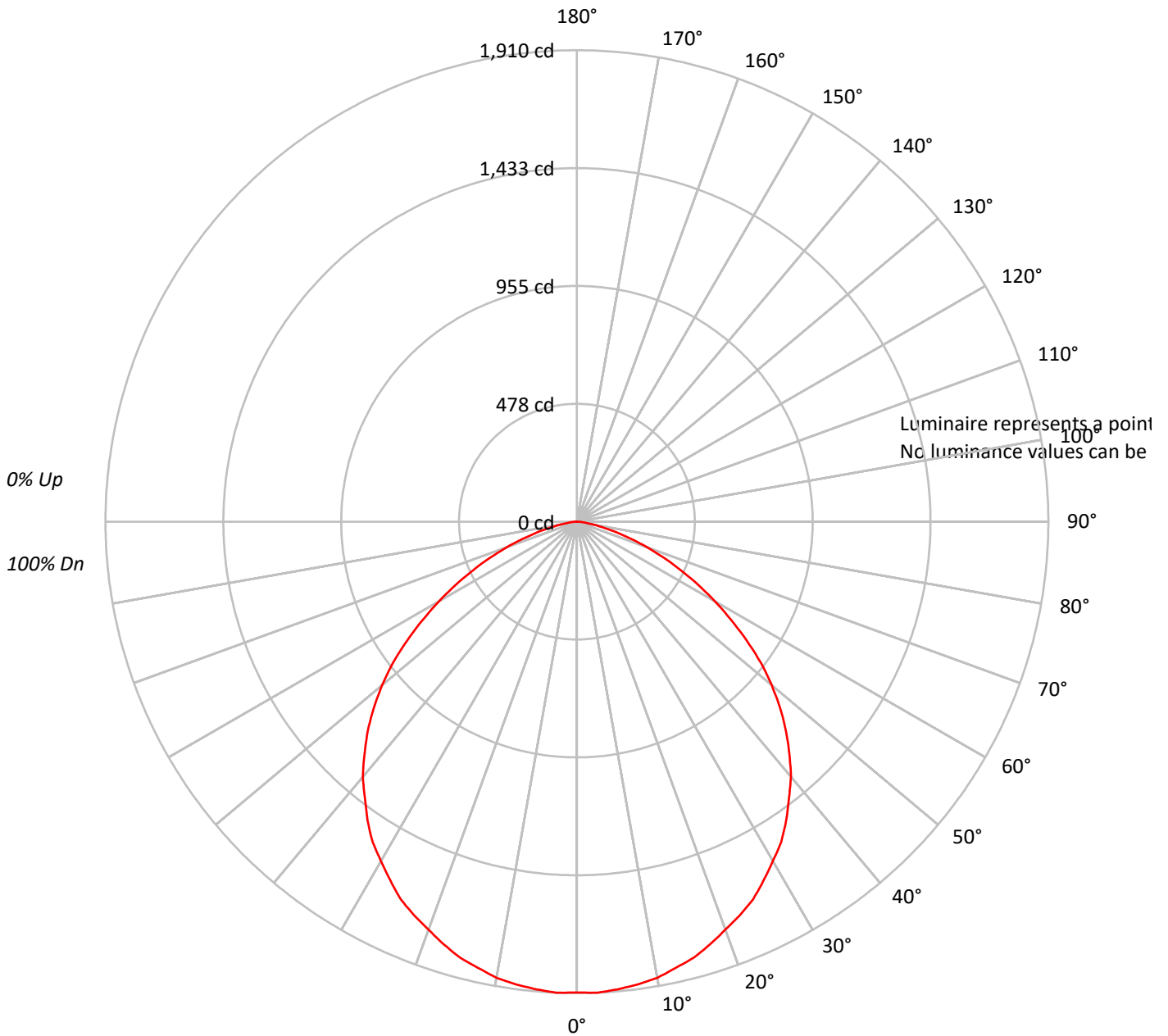
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	180.7	3.8
10°-20°	515.2	10.9
20°-30°	775.9	16.4
30°-40°	923.2	19.5
40°-50°	921.5	19.5
50°-60°	749.4	15.8
60°-70°	461.1	9.7
70°-80°	178.6	3.8
80°-90°	28.6	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°	1471.8	31.1
0°-40°	2395.0	50.6
0°-60°	4065.9	85.9
0°-90°	4734.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1907	
5°	1902	181
15°	1829	515
25°	1689	776
35°	1478	923
45°	1198	922
55°	839	749
65°	463	461
75°	163	179
85°	22	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1907.4
2.5°	1910.2
5°	1901.8
7.5°	1890.6
10°	1876.6
12.5°	1851.3
15°	1828.9
17.5°	1795.2
20°	1758.8
22.5°	1725.1
25°	1688.6
27.5°	1638.1
30°	1587.7
32.5°	1540.0
35°	1478.3
37.5°	1410.9
40°	1349.2
42.5°	1273.5
45°	1197.8
47.5°	1116.4
50°	1029.5
52.5°	939.7
55°	838.7
57.5°	740.5
60°	645.2
62.5°	552.6
65°	462.8
67.5°	378.7
70°	300.1
72.5°	227.2
75°	162.7
77.5°	106.6
80°	64.5
82.5°	39.3
85°	22.4
87.5°	11.2
90°	0.0



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— 0°-180°







(END OF REPORT)