

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: P207918

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBNB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207918
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 4LBNB1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR BLACK TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1722.4 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

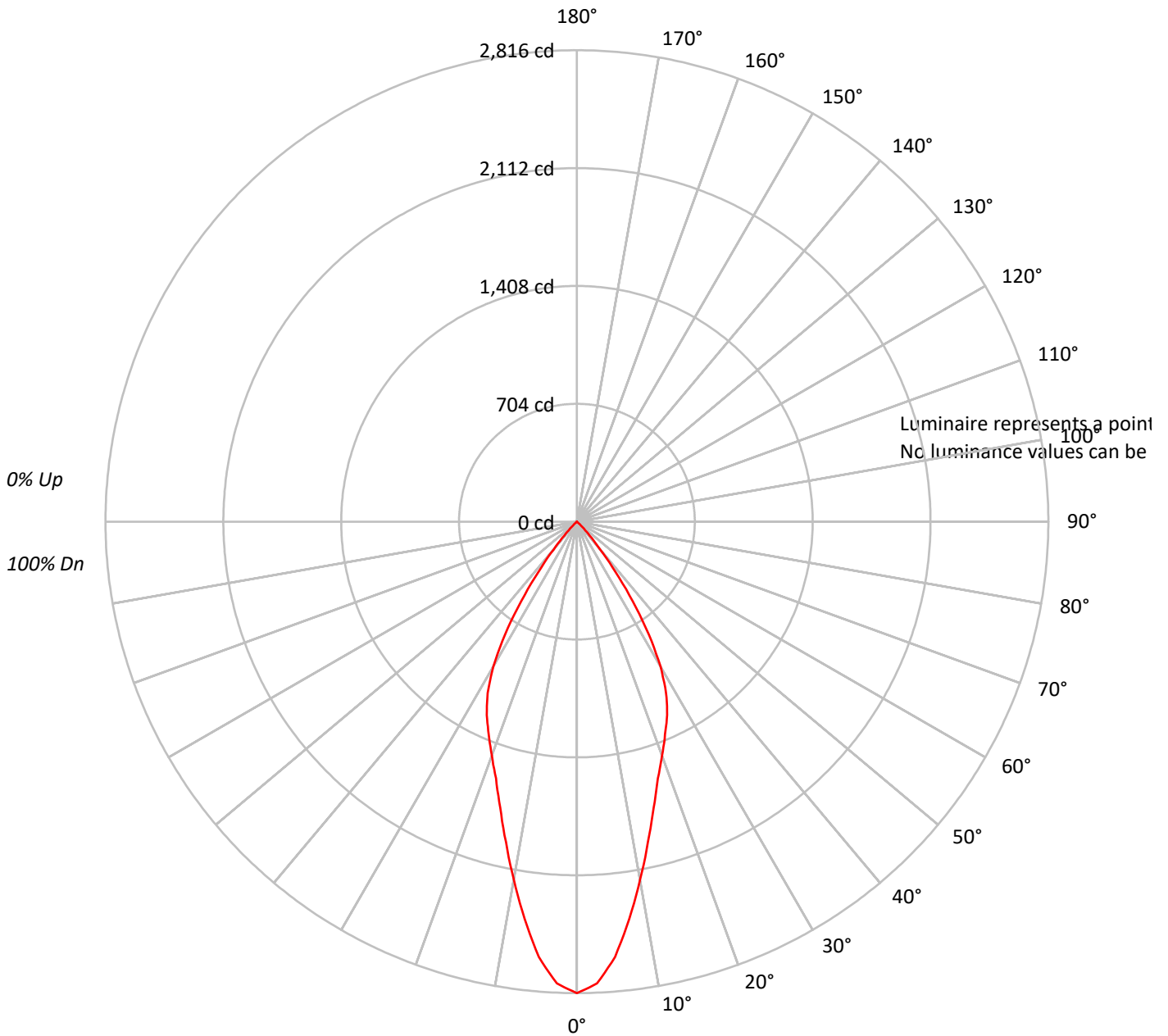
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																												
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88																												
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83																												
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78																												
5	94	86	81	77	92	85	80	76	84	79	76	82	78	75	80	77	74	73																												
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69																												
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65																												
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61																												
9	78	69	63	60	77	68	63	59	67	63	59	67	62	59	66	62	59	58																												
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	13.6
10°-20°	497.7	28.9
20°-30°	577.5	33.5
30°-40°	361.6	21.0
40°-50°	50.9	3.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	1309.9	76.0
0°-40°	1671.5	97.0
0°-60°	1722.4	100.0
0°-90°	1722.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2816	
5°	2610	235
15°	1768	498
25°	1275	578
35°	579	362
45°	45	51
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2816.4
2.5°	2761.0
5°	2609.8
7.5°	2393.2
10°	2171.5
12.5°	1959.9
15°	1768.4
17.5°	1607.2
20°	1486.3
22.5°	1375.4
25°	1274.7
27.5°	1153.8
30°	997.6
32.5°	801.1
35°	579.4
37.5°	377.9
40°	216.6
42.5°	110.8
45°	45.3
47.5°	10.1
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)