

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: P207200

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207200
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 EU4B30509050 4LBMH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.4 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

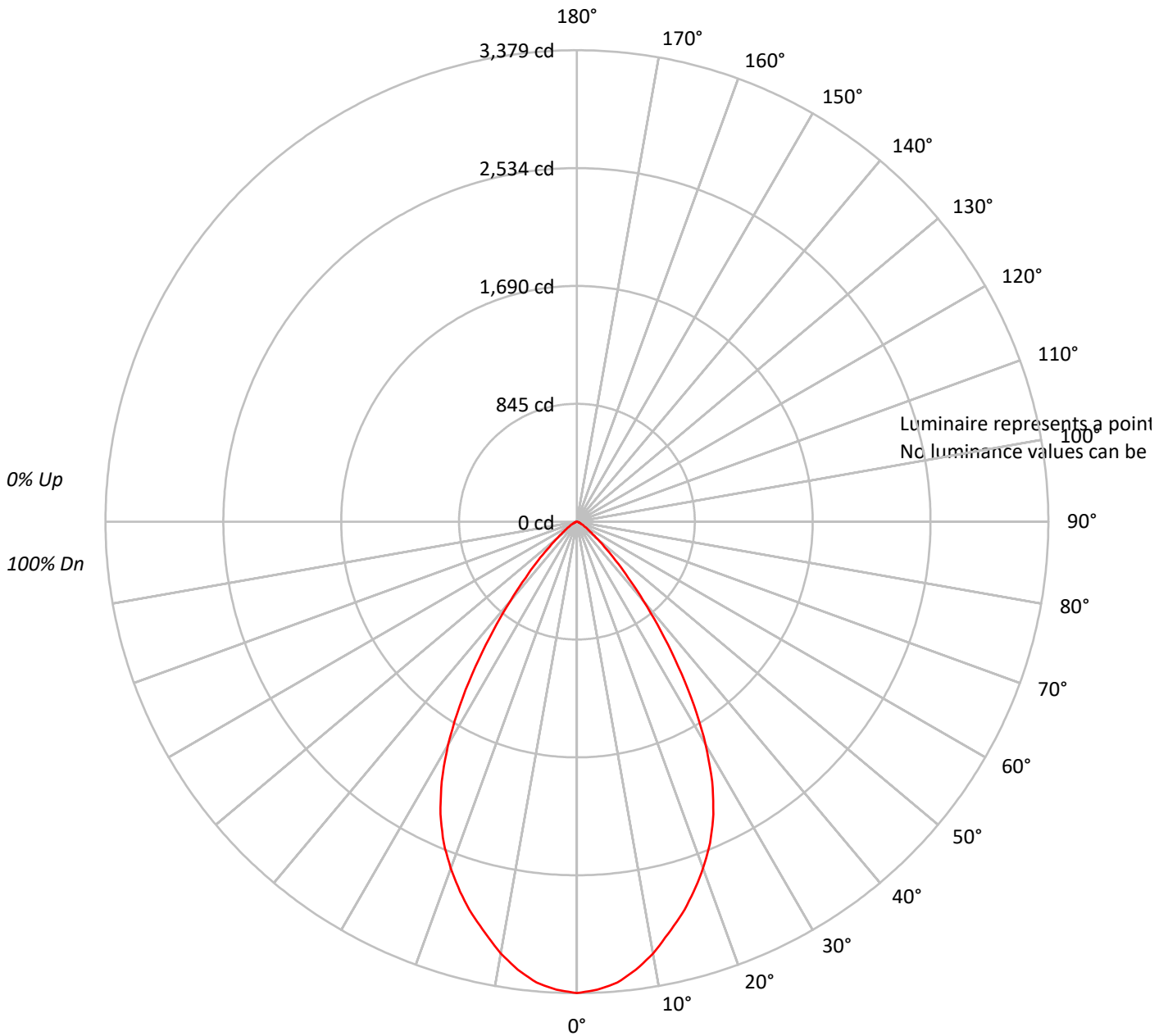
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																												
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																												
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																												
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73																												
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67																												
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																												
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																												
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																												
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																												
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	9.1
10°-20°	815.6	23.9
20°-30°	1048.2	30.8
30°-40°	788.6	23.1
40°-50°	316.7	9.3
50°-60°	90.0	2.6
60°-70°	28.5	0.8
70°-80°	8.1	0.2
80°-90°	0.7	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°	2174.7	63.8
0°-40°	2963.4	87.0
0°-60°	3370.1	98.9
0°-90°	3407.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3379	
5°	3317	311
15°	2911	816
25°	2314	1048
35°	1265	789
45°	391	317
55°	93	90
65°	26	28
75°	5	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3378.7
2.5°	3358.2
5°	3317.0
7.5°	3239.9
10°	3142.2
12.5°	3023.9
15°	2910.8
17.5°	2782.2
20°	2643.3
22.5°	2494.2
25°	2314.2
27.5°	2098.2
30°	1846.2
32.5°	1563.4
35°	1265.1
37.5°	987.4
40°	740.5
42.5°	545.1
45°	390.8
47.5°	267.4
50°	185.1
52.5°	128.6
55°	92.6
57.5°	66.9
60°	51.4
62.5°	36.0
65°	25.7
67.5°	20.6
70°	15.4
72.5°	10.3
75°	5.1
77.5°	5.1
80°	5.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)