

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: P207404

Luminaire Tested: **LD4B50D010TE EU4B30509035 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207404
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 EU4B30509035 4LBMGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2431.6 lumens
Efficiency: N/A
Efficacy: 41.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

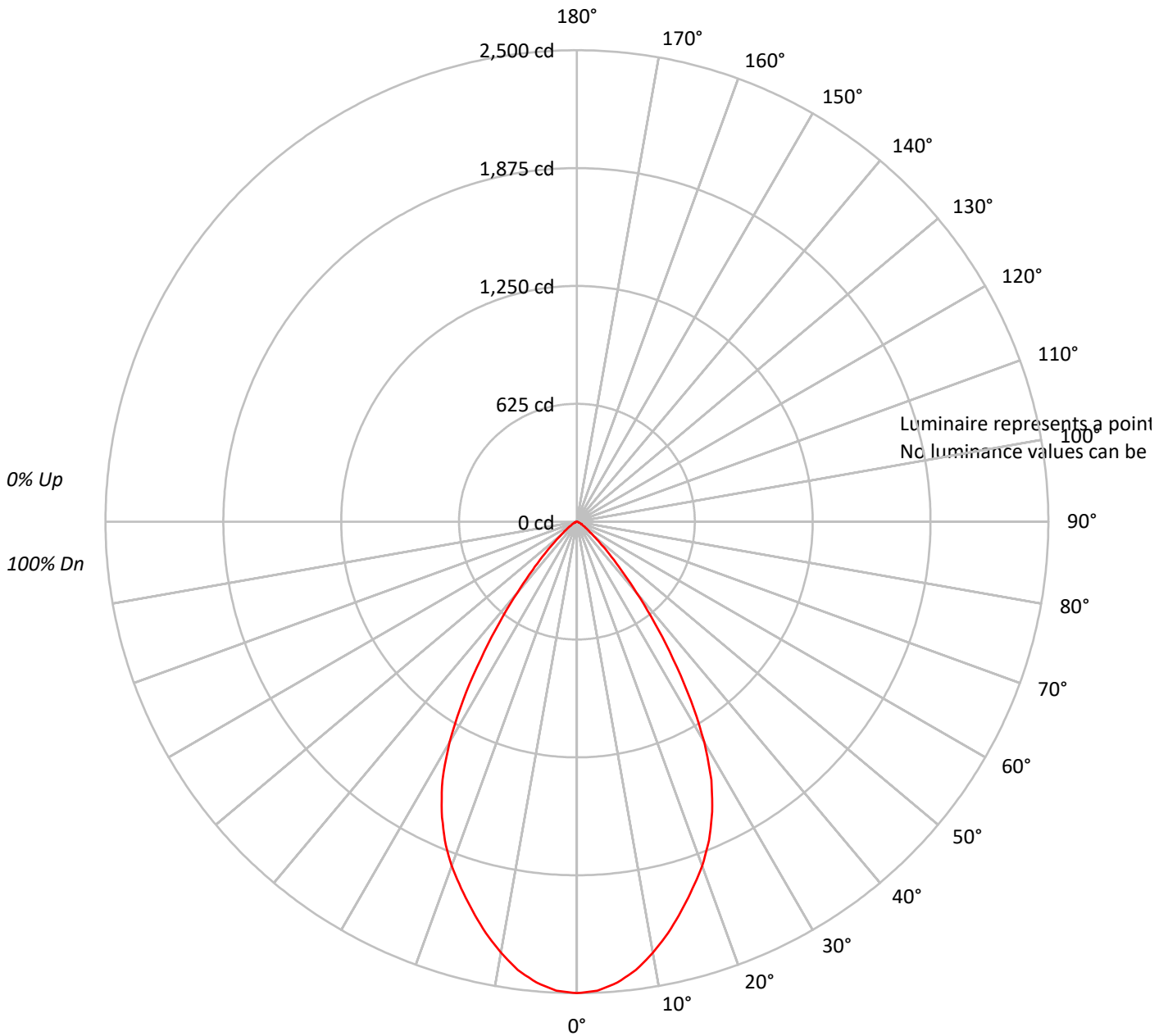
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
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	101	100	99	98	97	96	95	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86		
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79		
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59		
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55		
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51		
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	9.5
10°-20°	599.9	24.7
20°-30°	769.4	31.6
30°-40°	556.1	22.9
40°-50°	199.4	8.2
50°-60°	53.8	2.2
60°-70°	17.6	0.7
70°-80°	5.4	0.2
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°	1599.3	65.8
0°-40°	2155.4	88.6
0°-60°	2408.6	99.1
0°-90°	2431.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2500	
5°	2454	230
15°	2137	600
25°	1697	769
35°	890	556
45°	240	199
55°	56	54
65°	15	18
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2499.9
2.5°	2489.7
5°	2453.9
7.5°	2397.6
10°	2321.0
12.5°	2234.1
15°	2136.9
17.5°	2039.8
20°	1942.7
22.5°	1830.2
25°	1697.3
27.5°	1543.9
30°	1349.6
32.5°	1124.7
35°	889.5
37.5°	674.8
40°	490.8
42.5°	347.6
45°	240.3
47.5°	163.6
50°	107.4
52.5°	76.7
55°	56.2
57.5°	40.9
60°	30.7
62.5°	25.6
65°	15.3
67.5°	10.2
70°	10.2
72.5°	5.1
75°	5.1
77.5°	5.1
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)