

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: P206677

Luminaire Tested: **LD4B50D010TE EU4B30508035 4LBWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206677
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 EU4B30508035 4LBWH1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE 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: 4457.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

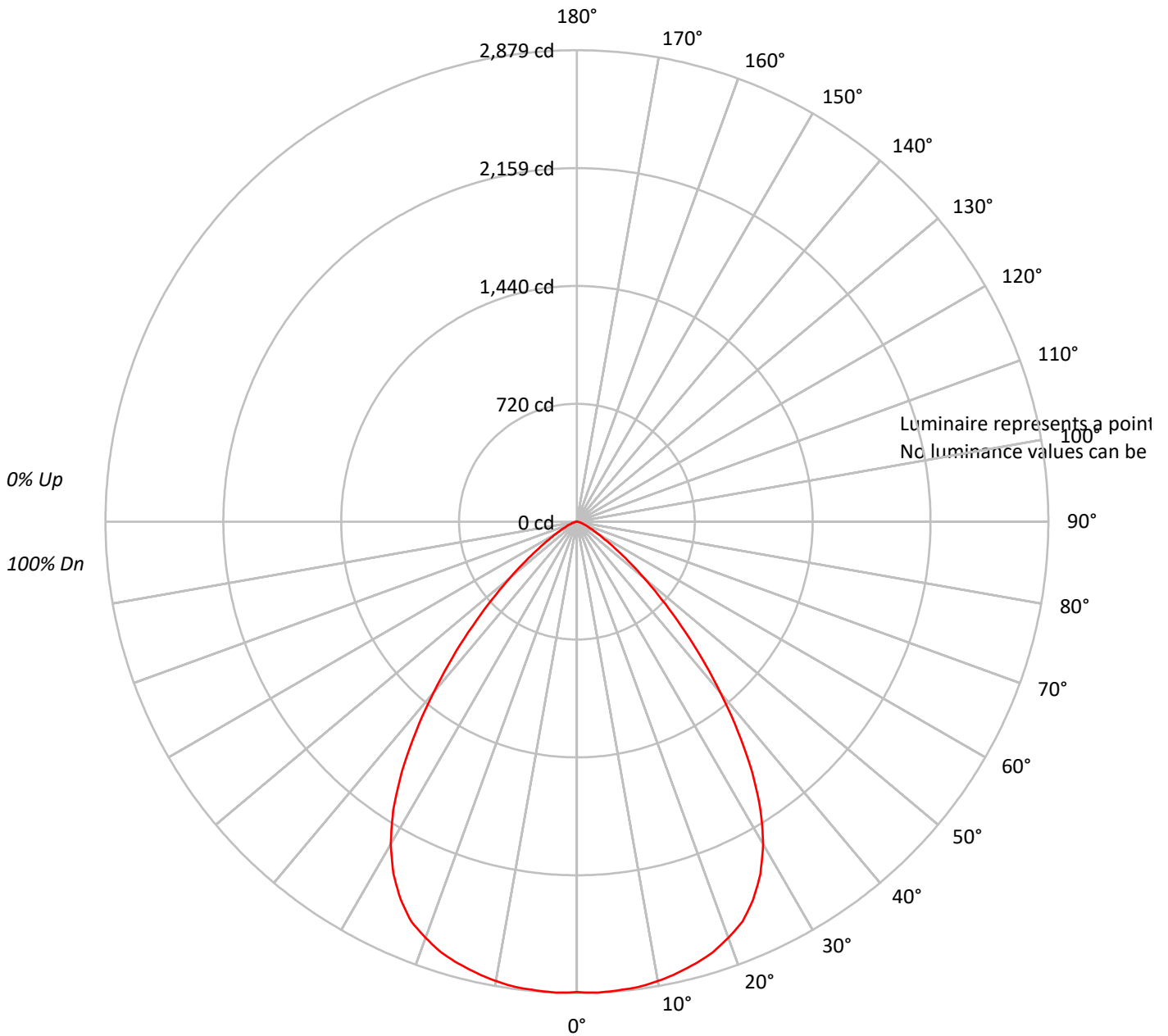
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																																			
	2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																																			
	3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																																			
	4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																																			
	5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																																			
	6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																																			
	7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																																			
	8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																																			
	9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																																			
	10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	6.1
10°-20°	788.4	17.7
20°-30°	1163.4	26.1
30°-40°	1148.1	25.8
40°-50°	702.6	15.8
50°-60°	269.4	6.0
60°-70°	84.2	1.9
70°-80°	24.7	0.6
80°-90°	3.3	0.1
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°	2225.4	49.9
0°-40°	3373.5	75.7
0°-60°	4345.5	97.5
0°-90°	4457.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4457.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2873	
5°	2873	274
15°	2794	788
25°	2546	1163
35°	1863	1148
45°	901	703
55°	284	269
65°	79	84
75°	24	25
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2873.1
2.5°	2879.2
5°	2873.1
7.5°	2867.1
10°	2848.9
12.5°	2824.7
15°	2794.5
17.5°	2758.2
20°	2703.8
22.5°	2643.3
25°	2546.5
27.5°	2425.5
30°	2274.3
32.5°	2086.8
35°	1863.0
37.5°	1615.0
40°	1361.0
42.5°	1125.1
45°	901.3
47.5°	701.6
50°	532.3
52.5°	393.2
55°	284.3
57.5°	199.6
60°	145.2
62.5°	108.9
65°	78.6
67.5°	60.5
70°	42.3
72.5°	30.2
75°	24.2
77.5°	12.1
80°	12.1
82.5°	6.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)