

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: P211999

Luminaire Tested: **LE\_4B30D010 EC4B30509730 4LBM1WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211999  
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: LE\_4B30D010 EC4B30509730 4LBM1WH  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM DISTRIBUTION WITH WHEAT TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1940.4 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

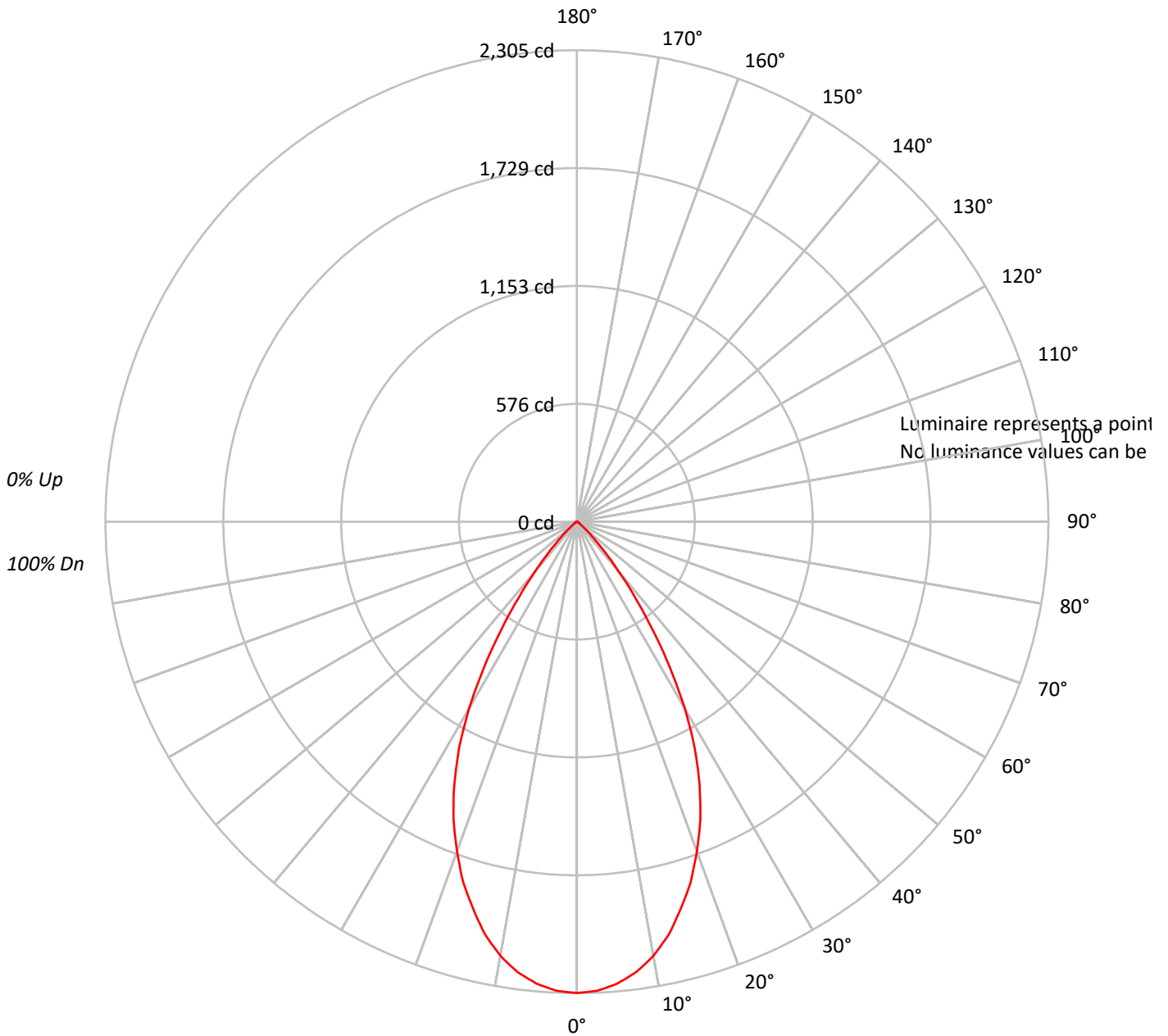
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																								
RCR																																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																																				
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94																																				
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																																				
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																																				
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																																				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																																				
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																																				
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62																																				
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																																				
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																																				
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52																																				

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	11.0
10°-20°	547.3	28.2
20°-30°	642.2	33.1
30°-40°	406.4	20.9
40°-50°	108.9	5.6
50°-60°	15.2	0.8
60°-70°	5.6	0.3
70°-80°	1.9	0.1
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°	1402.4	72.3
0°-40°	1808.8	93.2
0°-60°	1932.9	99.6
0°-90°	1940.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2305	
5°	2267	213
15°	1960	547
25°	1419	642
35°	645	406
45°	123	109
55°	14	15
65°	6	6
75°	3	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2304.6
2.5°	2296.0
5°	2267.2
7.5°	2221.4
10°	2155.5
12.5°	2069.4
15°	1960.5
17.5°	1848.8
20°	1714.0
22.5°	1576.4
25°	1418.8
27.5°	1246.9
30°	1054.8
32.5°	845.5
35°	645.0
37.5°	467.2
40°	321.0
42.5°	206.4
45°	123.3
47.5°	68.8
50°	37.2
52.5°	20.1
55°	14.4
57.5°	11.5
60°	8.6
62.5°	8.6
65°	5.7
67.5°	2.9
70°	2.9
72.5°	2.9
75°	2.9
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)