

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: P211540

Luminaire Tested: **LE_4B20D010 EC4B10209727 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211540
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_4B20D010 EC4B10209727 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1197.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

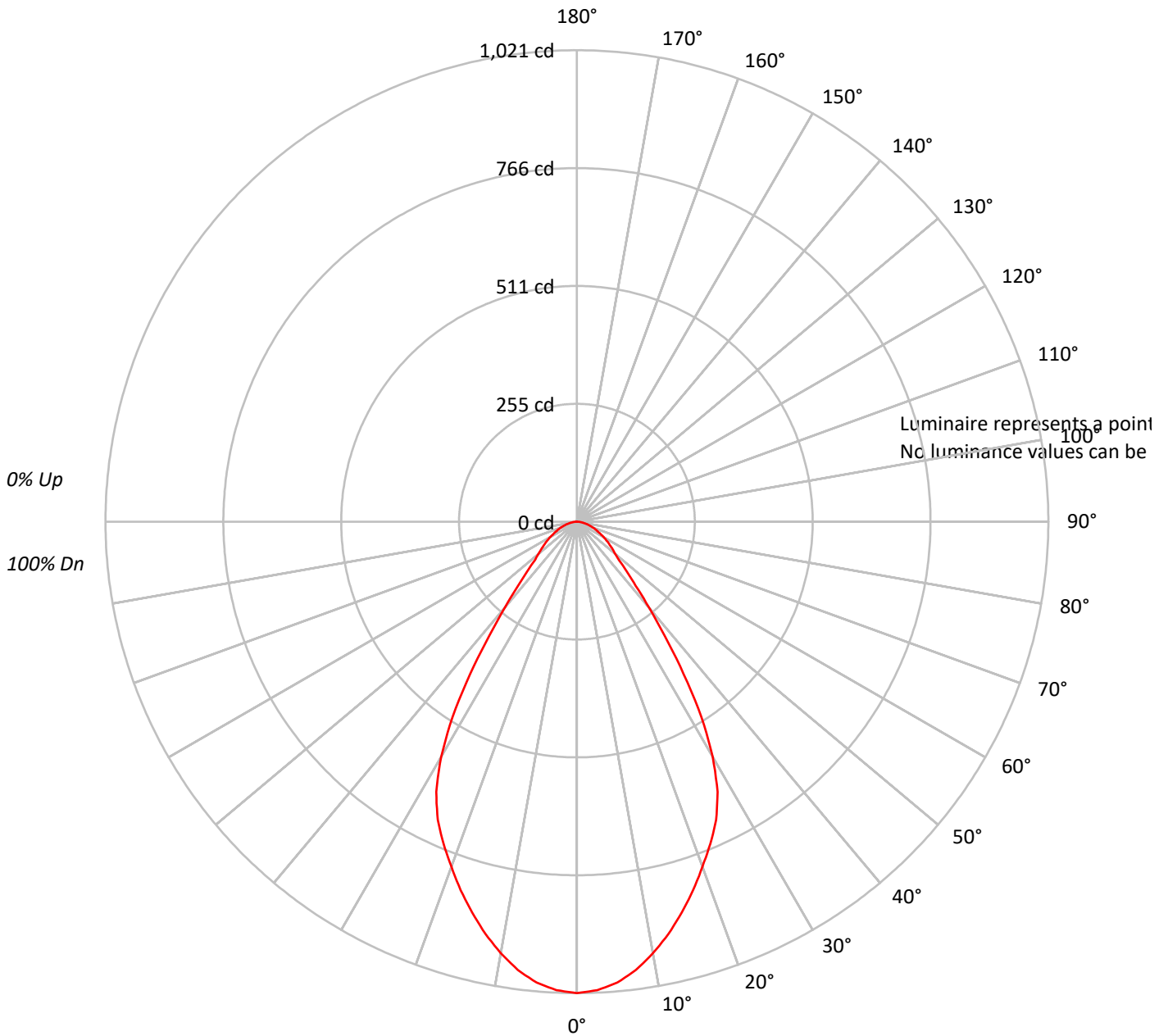
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	7.8
10°-20°	245.8	20.5
20°-30°	323.5	27.0
30°-40°	251.8	21.0
40°-50°	122.3	10.2
50°-60°	77.3	6.5
60°-70°	49.8	4.2
70°-80°	26.0	2.2
80°-90°	6.5	0.5
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°	663.2	55.4
0°-40°	915.1	76.4
0°-60°	1114.7	93.1
0°-90°	1197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1021	
5°	1002	94
15°	877	246
25°	713	323
35°	403	252
45°	152	122
55°	86	77
65°	49	50
75°	25	26
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1021.1
2.5°	1015.5
5°	1002.1
7.5°	979.4
10°	948.9
12.5°	914.7
15°	876.6
17.5°	836.7
20°	794.8
22.5°	754.9
25°	713.1
27.5°	659.8
30°	587.7
32.5°	502.0
35°	403.1
37.5°	311.8
40°	241.5
42.5°	188.3
45°	152.1
47.5°	123.7
50°	108.3
52.5°	97.0
55°	85.6
57.5°	76.1
60°	66.6
62.5°	57.1
65°	49.4
67.5°	43.7
70°	36.1
72.5°	30.4
75°	24.7
77.5°	19.0
80°	13.3
82.5°	9.5
85°	5.7
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)