

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: P211712

Luminaire Tested: **LE_4B20D010 EC4B10208040 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211712
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 EC4B10208040 4LBN1H
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1520.7 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

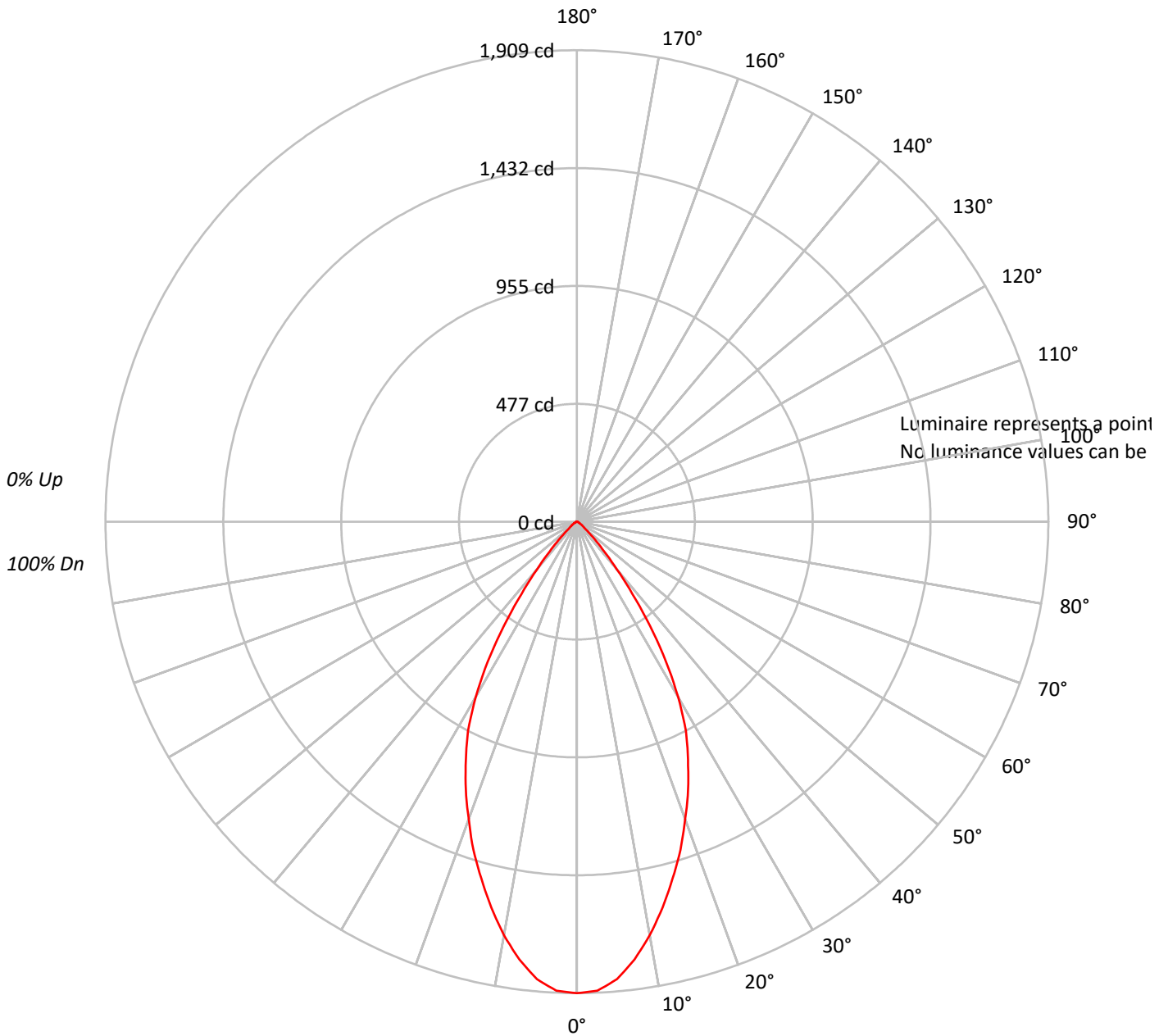
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																																				
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																																				
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																																				
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																																				
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																																				
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																																				
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																																				
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																																				
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																																				
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	11.3
10°-20°	417.9	27.5
20°-30°	485.1	31.9
30°-40°	321.3	21.1
40°-50°	90.1	5.9
50°-60°	22.6	1.5
60°-70°	8.5	0.6
70°-80°	2.9	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°	1075.3	70.7
0°-40°	1396.5	91.8
0°-60°	1509.3	99.2
0°-90°	1520.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1520.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1909	
5°	1860	172
15°	1496	418
25°	1064	485
35°	515	321
45°	105	90
55°	25	23
65°	8	9
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1909.2
2.5°	1901.0
5°	1859.7
7.5°	1788.0
10°	1699.9
12.5°	1600.7
15°	1496.1
17.5°	1394.1
20°	1281.1
22.5°	1176.4
25°	1063.5
27.5°	956.0
30°	818.3
32.5°	672.2
35°	515.2
37.5°	369.2
40°	250.7
42.5°	162.5
45°	104.7
47.5°	63.3
50°	41.3
52.5°	30.3
55°	24.8
57.5°	19.3
60°	13.8
62.5°	11.0
65°	8.2
67.5°	5.6
70°	5.6
72.5°	2.8
75°	2.8
77.5°	2.8
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)