

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: P211529

Luminaire Tested: **LE_4B20D010 EC4B10209727 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211529
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 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST 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: 1750.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

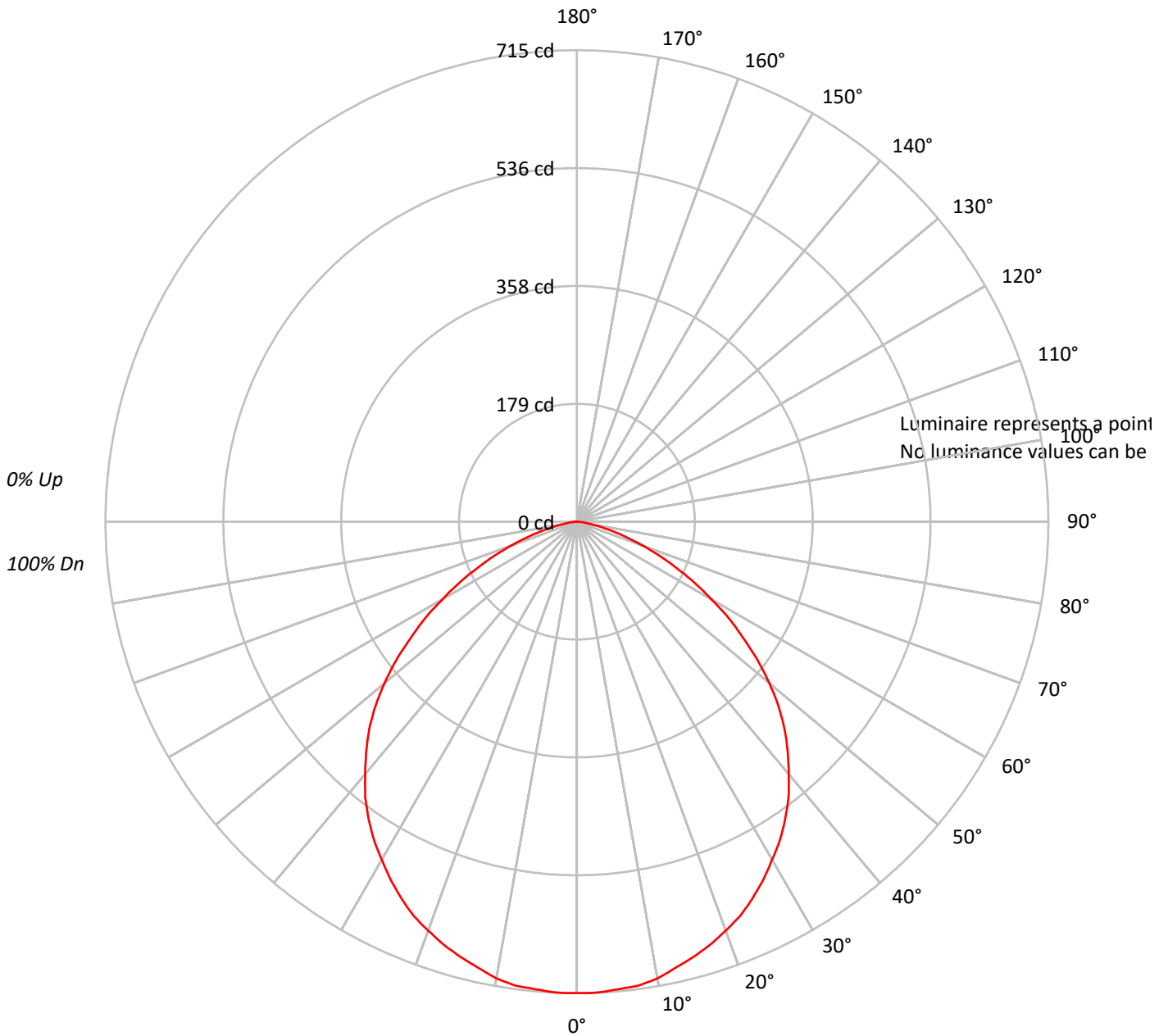
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																																				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																																				
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63																																				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55																																				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48																																				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42																																				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37																																				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33																																				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																																				
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.9
10°-20°	192.9	11.0
20°-30°	290.1	16.6
30°-40°	343.9	19.6
40°-50°	342.2	19.5
50°-60°	275.9	15.8
60°-70°	166.9	9.5
70°-80°	62.0	3.5
80°-90°	9.2	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°	550.8	31.5
0°-40°	894.6	51.1
0°-60°	1512.7	86.4
0°-90°	1750.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	712	68
15°	683	193
25°	630	290
35°	551	344
45°	446	342
55°	308	276
65°	168	167
75°	56	62
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	715.0
2.5°	715.0
5°	711.9
7.5°	709.8
10°	703.4
12.5°	692.8
15°	683.2
17.5°	672.6
20°	659.9
22.5°	647.2
25°	630.2
27.5°	612.1
30°	591.9
32.5°	572.9
35°	550.7
37.5°	527.3
40°	499.7
42.5°	473.2
45°	445.6
47.5°	414.8
50°	380.8
52.5°	345.9
55°	307.6
57.5°	273.8
60°	235.5
62.5°	201.6
65°	167.6
67.5°	135.8
70°	106.1
72.5°	79.6
75°	56.3
77.5°	36.1
80°	21.2
82.5°	12.8
85°	7.4
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)