

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: P211708

Luminaire Tested: **LE_4B20D010 EC4B10208040 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211708
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 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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

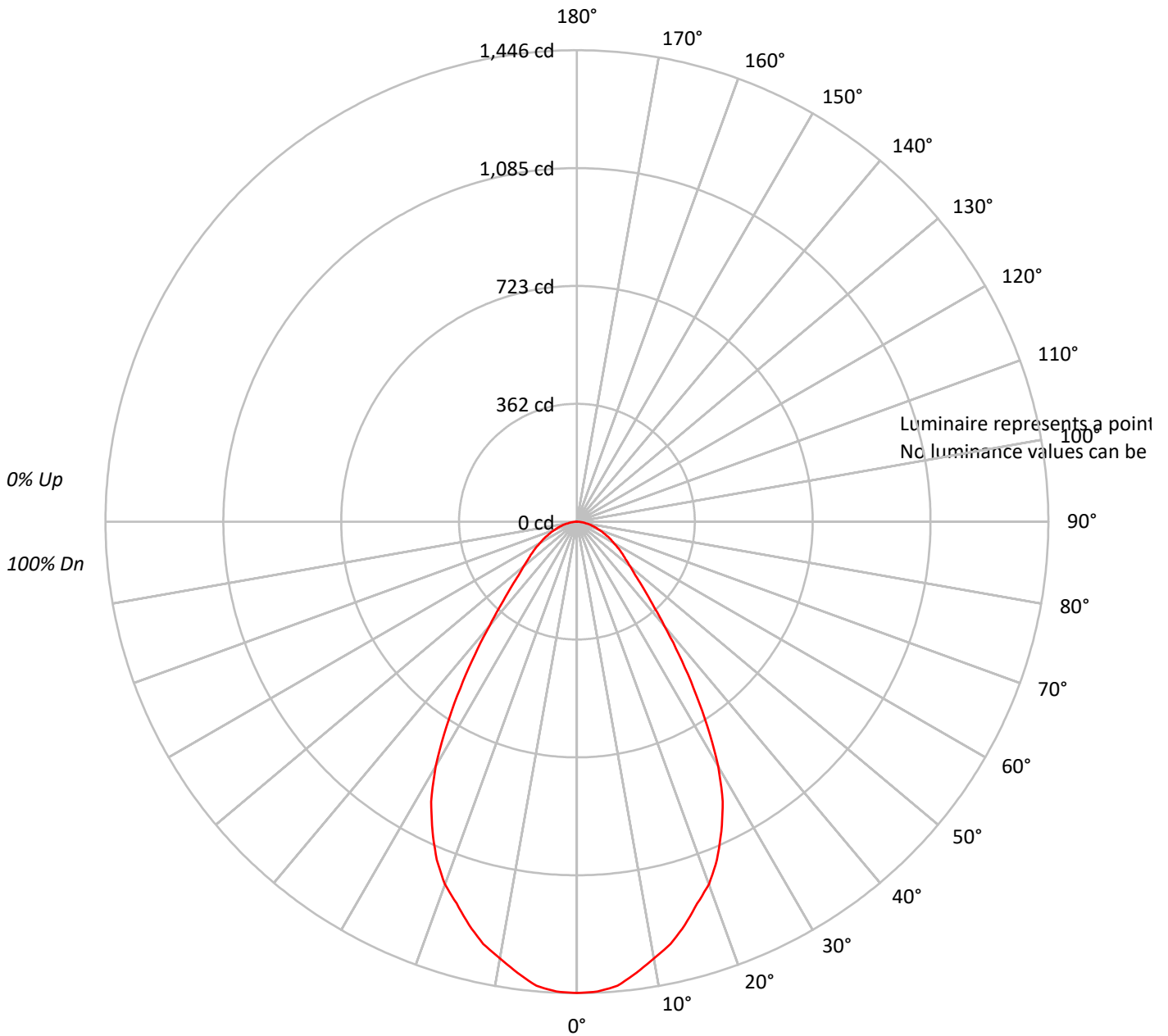
Lumens per Lamp: N/A
Luminaire Lumens: 1904.3 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80	80	80	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49	49	49	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42	42	42	42
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	7.0
10°-20°	359.2	18.9
20°-30°	477.6	25.1
30°-40°	390.7	20.5
40°-50°	227.5	11.9
50°-60°	150.9	7.9
60°-70°	99.2	5.2
70°-80°	52.3	2.7
80°-90°	12.8	0.7
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°	970.8	51.0
0°-40°	1361.5	71.5
0°-60°	1739.9	91.4
0°-90°	1904.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1446	
5°	1429	134
15°	1280	359
25°	1048	478
35°	624	391
45°	287	228
55°	168	151
65°	99	99
75°	50	52
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1445.6
2.5°	1442.8
5°	1429.0
7.5°	1395.9
10°	1360.1
12.5°	1326.9
15°	1280.1
17.5°	1227.6
20°	1183.5
22.5°	1122.8
25°	1048.3
27.5°	968.4
30°	866.3
32.5°	744.8
35°	623.5
37.5°	513.2
40°	416.6
42.5°	342.1
45°	286.9
47.5°	242.8
50°	212.4
52.5°	187.6
55°	168.3
57.5°	148.9
60°	129.7
62.5°	115.9
65°	99.3
67.5°	85.5
70°	71.7
72.5°	60.7
75°	49.6
77.5°	38.6
80°	27.6
82.5°	19.3
85°	11.0
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)