

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: P212035

Luminaire Tested: **LE_4B30D010 EC4B30508035 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212035
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 EC4B30508035 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE 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: 3698.6 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

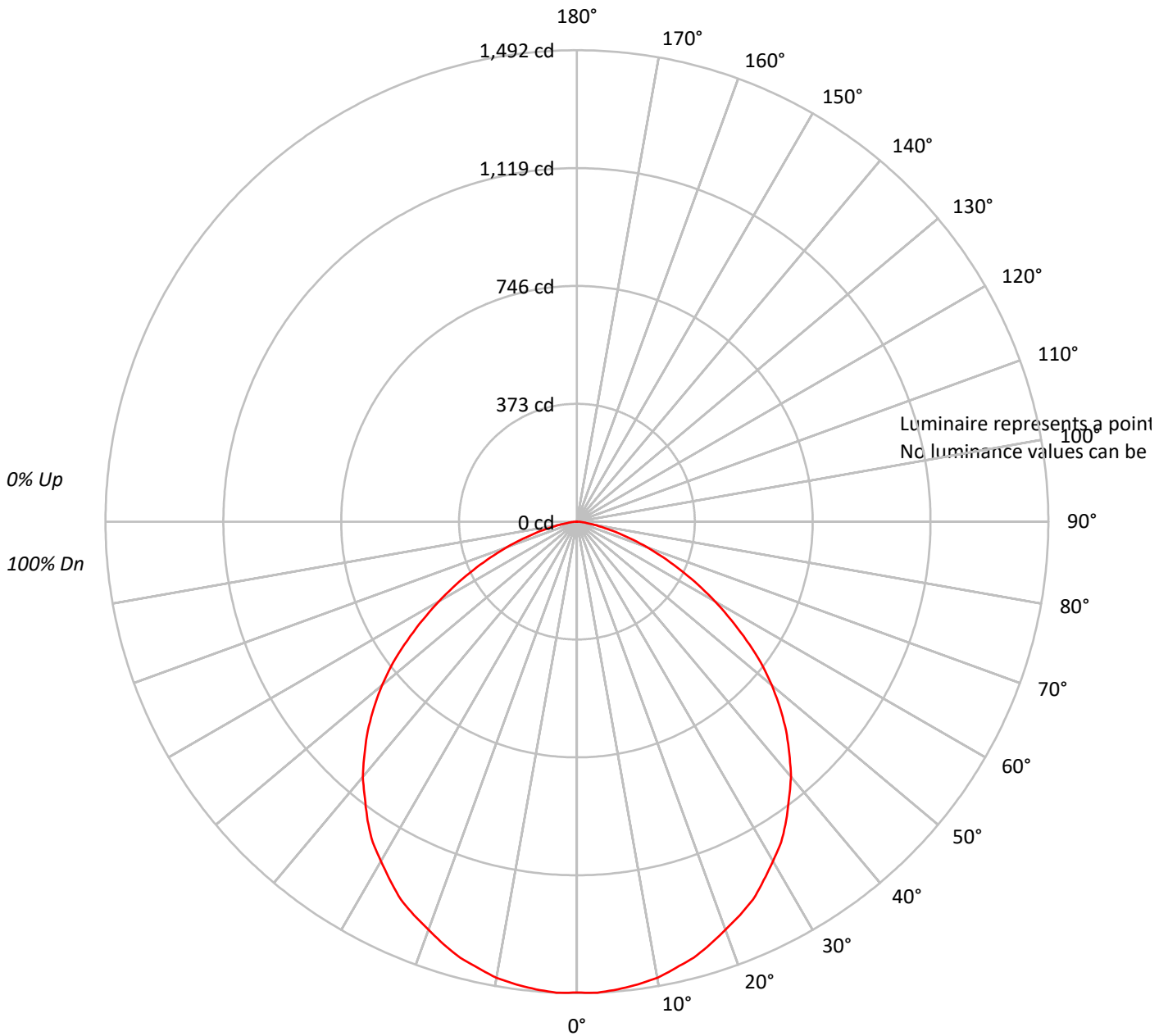
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212035

CATALOG NUMBER: LE_4B30D010 EC4B30508035 4LBPS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P212035

CATALOG NUMBER: LE_4B30D010 EC4B30508035 4LBPS1MW

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	100	100	100	100	100	100	100	100	100	100																	
	1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86	86	86	86	86																	
	2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74	74	74	74	74																	
	3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63	63	63	63	63	63	63	63	63	63	63																	
	4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54	54	54	54	54	54	54	54	54	54	54																	
	5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47	47																	
	6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42	42	42	42	42	42	42	42	42	42	42																	
	7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37	37	37	37	37	37	37	37	37	37	37																	
	8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33	33	33	33	33	33	33	33	33	33	33																	
	9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30	30	30	30	30	30	30	30	30	30	30																	
	10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27	27	27	27	27	27	27	27																	

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212035

CATALOG NUMBER: LE_4B30D010 EC4B30508035 4LBPS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.8
10°-20°	402.5	10.9
20°-30°	606.2	16.4
30°-40°	721.3	19.5
40°-50°	719.9	19.5
50°-60°	585.5	15.8
60°-70°	360.2	9.7
70°-80°	139.5	3.8
80°-90°	22.3	0.6
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°	1149.8	31.1
0°-40°	1871.1	50.6
0°-60°	3176.6	85.9
0°-90°	3698.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1490	
5°	1486	141
15°	1429	402
25°	1319	606
35°	1155	721
45°	936	720
55°	655	586
65°	362	360
75°	127	140
85°	18	22
90°	0	



TEST NUMBER: P212035

CATALOG NUMBER: LE_4B30D010 EC4B30508035 4LBPS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1490.1
2.5°	1492.3
5°	1485.8
7.5°	1477.0
10°	1466.1
12.5°	1446.4
15°	1428.8
17.5°	1402.6
20°	1374.0
22.5°	1347.7
25°	1319.3
27.5°	1279.8
30°	1240.4
32.5°	1203.2
35°	1154.9
37.5°	1102.3
40°	1054.1
42.5°	994.9
45°	935.8
47.5°	872.2
50°	804.2
52.5°	734.2
55°	655.3
57.5°	578.5
60°	504.0
62.5°	431.8
65°	361.6
67.5°	295.8
70°	234.4
72.5°	177.5
75°	127.1
77.5°	83.3
80°	50.5
82.5°	30.6
85°	17.5
87.5°	8.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)