

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: P212153

Luminaire Tested: **LE_4B30D010 EC4B30508050 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212153
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 EC4B30508050 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 3157.8 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

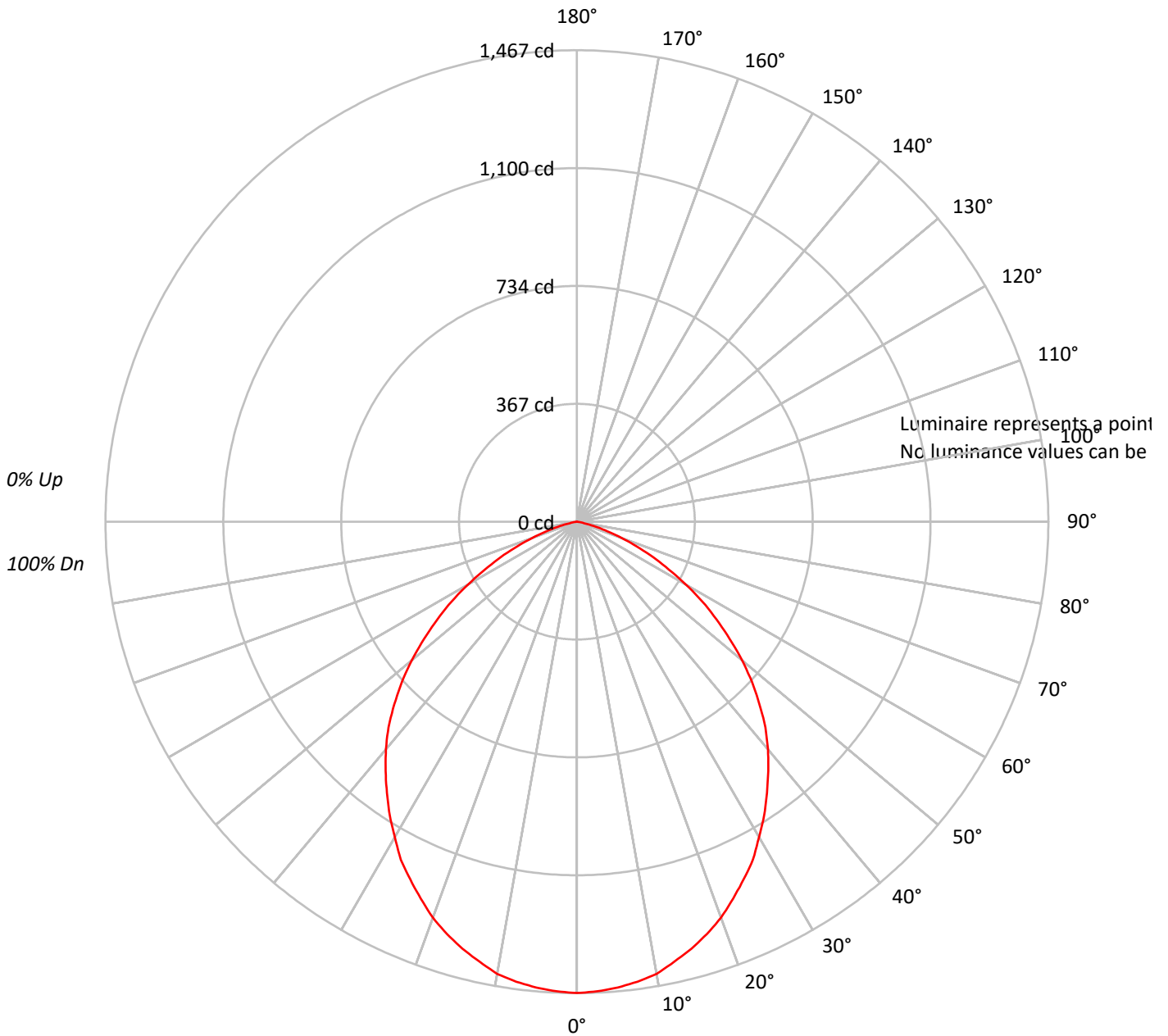
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212153

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBS1GPH

Luminous Intensity Polar Plot





TEST NUMBER: P212153

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBS1GPH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88				88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76				76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57				57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50				50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45				45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36				36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32				32
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30				30

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212153

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBS1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	4.4
10°-20°	387.6	12.3
20°-30°	565.3	17.9
30°-40°	644.7	20.4
40°-50°	618.4	19.6
50°-60°	473.6	15.0
60°-70°	259.9	8.2
70°-80°	69.1	2.2
80°-90°	1.0	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°	1091.0	34.6
0°-40°	1735.7	55.0
0°-60°	2827.7	89.5
0°-90°	3157.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1467	
5°	1455	138
15°	1376	388
25°	1228	565
35°	1031	645
45°	803	618
55°	531	474
65°	262	260
75°	61	69
85°	0	1
90°	0	



TEST NUMBER: P212153

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBS1GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1466.6
2.5°	1462.9
5°	1455.2
7.5°	1443.9
10°	1428.8
12.5°	1402.2
15°	1375.6
17.5°	1345.4
20°	1311.3
22.5°	1269.5
25°	1227.9
27.5°	1186.2
30°	1133.1
32.5°	1083.9
35°	1030.8
37.5°	977.8
40°	924.6
42.5°	867.8
45°	803.4
47.5°	739.0
50°	670.8
52.5°	598.8
55°	530.6
57.5°	462.4
60°	390.3
62.5°	322.1
65°	261.5
67.5°	200.8
70°	147.8
72.5°	98.5
75°	60.7
77.5°	26.6
80°	7.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)