

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: P211875

Luminaire Tested: **LE_4B30D010 EC4B30509027 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211875
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 EC4B30509027 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 2716.8 lumens
Efficiency: N/A
Efficacy: 97.0 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

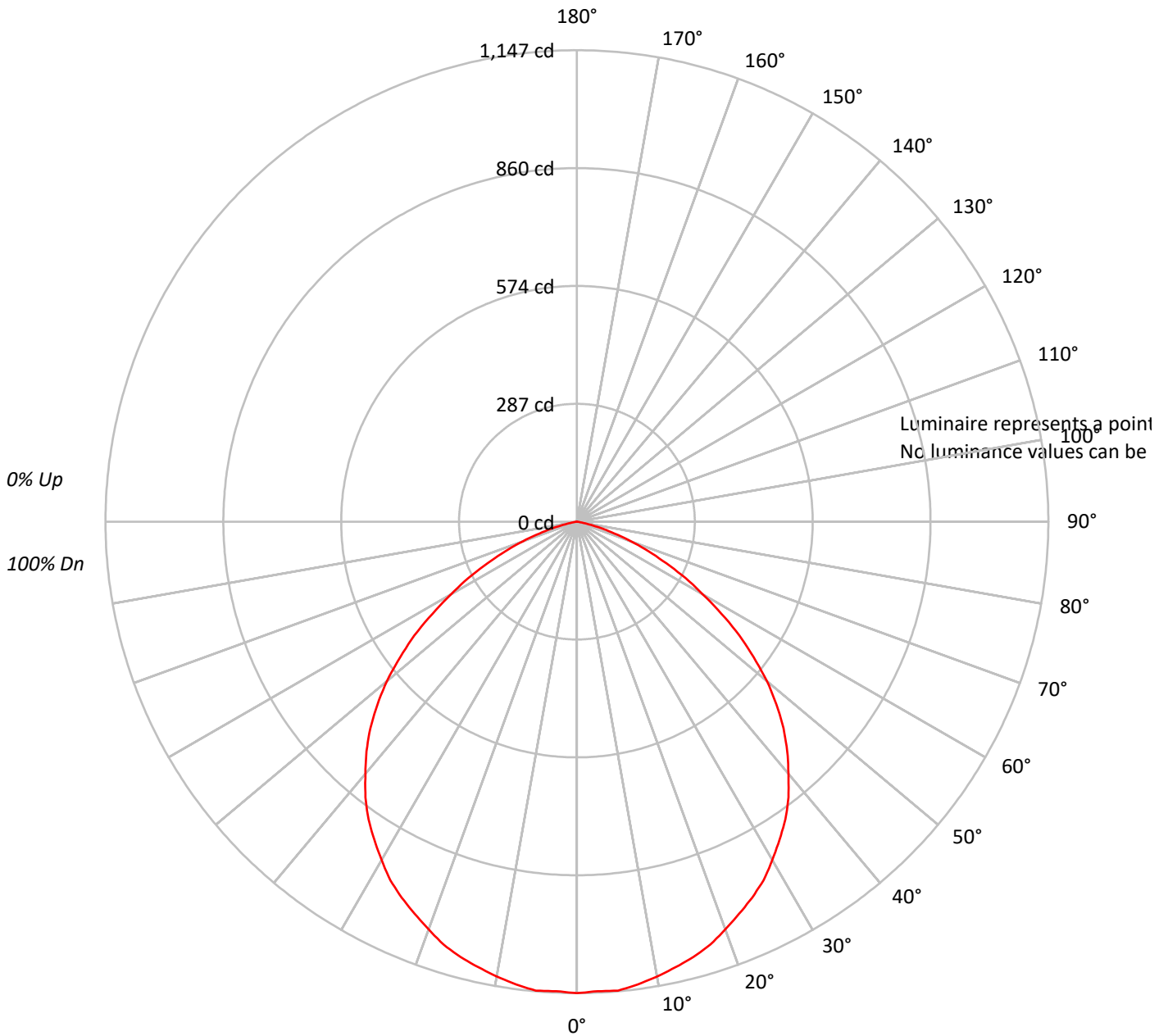
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211875

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBCSM1B

Luminous Intensity Polar Plot





TEST NUMBER: P211875

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBCSM1B

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	104	101	98	100	98	95	96	94	92	93	91	90	88				88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56				56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39				39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35				35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31				31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211875

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBCSM1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	4.0
10°-20°	309.1	11.4
20°-30°	464.7	17.1
30°-40°	551.4	20.3
40°-50°	545.6	20.1
50°-60°	428.6	15.8
60°-70°	240.3	8.8
70°-80°	67.5	2.5
80°-90°	1.1	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°	882.3	32.5
0°-40°	1433.7	52.8
0°-60°	2407.9	88.6
0°-90°	2716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2716.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1147	
5°	1145	109
15°	1096	309
25°	1009	465
35°	884	551
45°	711	546
55°	483	429
65°	240	240
75°	58	68
85°	0	1
90°	0	



TEST NUMBER: P211875

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBCSM1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1147.1
2.5°	1143.3
5°	1145.3
7.5°	1135.5
10°	1123.8
12.5°	1110.1
15°	1096.5
17.5°	1079.0
20°	1055.6
22.5°	1032.3
25°	1008.9
27.5°	983.6
30°	950.5
32.5°	917.3
35°	884.3
37.5°	845.3
40°	800.5
42.5°	757.6
45°	710.8
47.5°	658.3
50°	603.8
52.5°	541.5
55°	483.0
57.5°	416.8
60°	354.5
62.5°	298.0
65°	239.5
67.5°	189.0
70°	140.2
72.5°	95.5
75°	58.5
77.5°	29.2
80°	7.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)