

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: P211998

Luminaire Tested: **LSR4B30D010BZ EC4B30509730 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211998
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: LSR4B30D010BZ EC4B30509730 4LBMMW1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH 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: 1705.0 lumens
Efficiency: N/A
Efficacy: 60.9 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

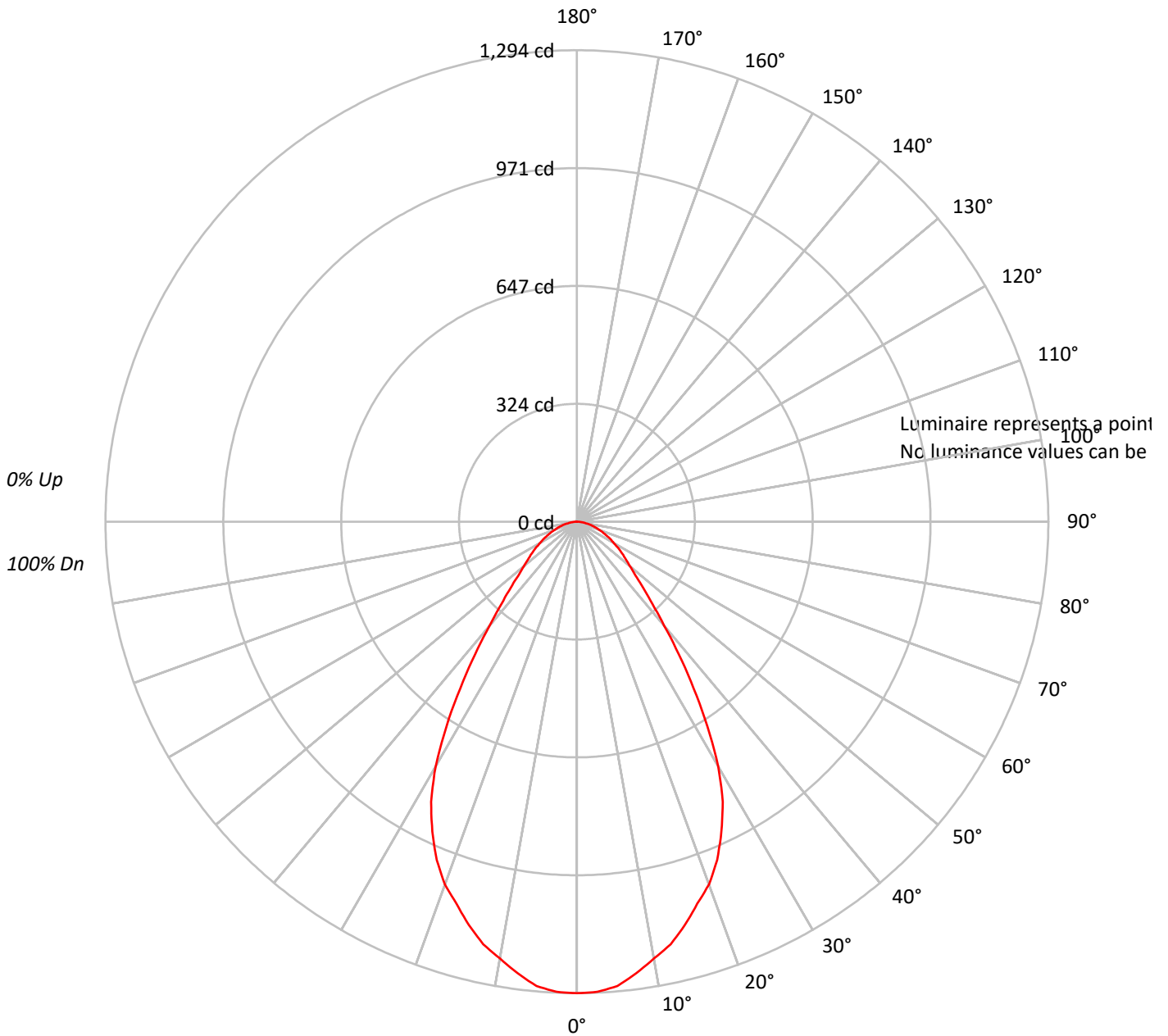
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211998

CATALOG NUMBER: LSR4B30D010BZ EC4B30509730 4LBMMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211998

CATALOG NUMBER: LSR4B30D010BZ EC4B30509730 4LBMMW1

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42		
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211998

CATALOG NUMBER: LSR4B30D010BZ EC4B30509730 4LBMMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	7.0
10°-20°	321.6	18.9
20°-30°	427.6	25.1
30°-40°	349.8	20.5
40°-50°	203.7	11.9
50°-60°	135.1	7.9
60°-70°	88.8	5.2
70°-80°	46.9	2.7
80°-90°	11.4	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°	869.2	51.0
0°-40°	1218.9	71.5
0°-60°	1557.8	91.4
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1294	
5°	1279	120
15°	1146	322
25°	939	428
35°	558	350
45°	257	204
55°	151	135
65°	89	89
75°	44	47
85°	10	11
90°	0	



TEST NUMBER: P211998

CATALOG NUMBER: LSR4B30D010BZ EC4B30509730 4LBMMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1294.2
2.5°	1291.8
5°	1279.4
7.5°	1249.8
10°	1217.7
12.5°	1188.0
15°	1146.0
17.5°	1099.1
20°	1059.6
22.5°	1005.3
25°	938.6
27.5°	866.9
30°	775.6
32.5°	666.9
35°	558.2
37.5°	459.4
40°	373.0
42.5°	306.3
45°	256.9
47.5°	217.4
50°	190.2
52.5°	168.0
55°	150.7
57.5°	133.4
60°	116.1
62.5°	103.7
65°	88.9
67.5°	76.6
70°	64.2
72.5°	54.3
75°	44.5
77.5°	34.6
80°	24.7
82.5°	17.3
85°	9.9
87.5°	2.5
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)