

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: P212410

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212410
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: LSR4B40D010BZ EC4B30508035 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988.3 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

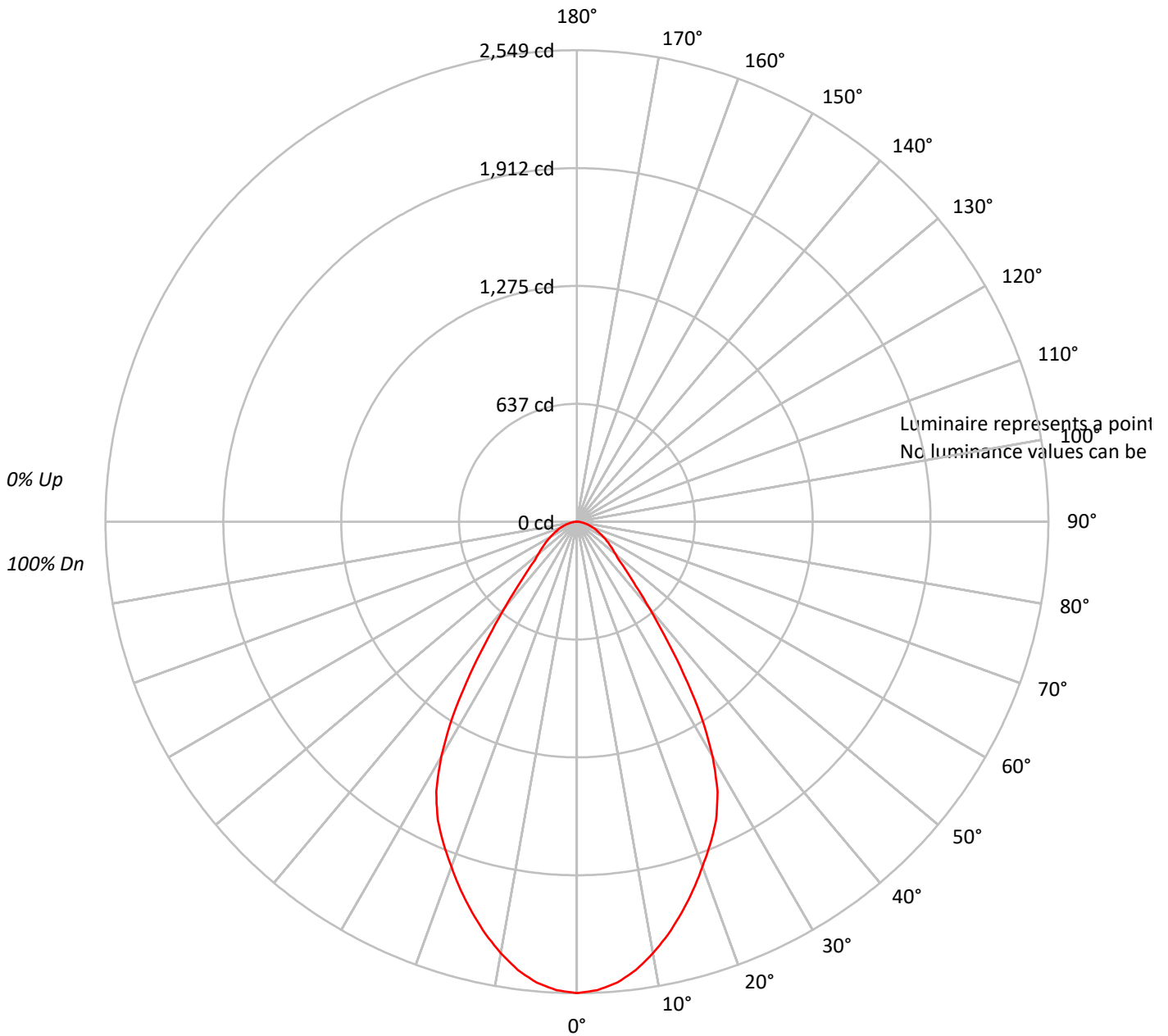
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48																			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	7.8
10°-20°	613.6	20.5
20°-30°	807.6	27.0
30°-40°	628.7	21.0
40°-50°	305.4	10.2
50°-60°	192.9	6.5
60°-70°	124.4	4.2
70°-80°	65.1	2.2
80°-90°	16.1	0.5
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°	1655.8	55.4
0°-40°	2284.5	76.4
0°-60°	2782.7	93.1
0°-90°	2988.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2549	
5°	2502	235
15°	2188	614
25°	1780	808
35°	1006	629
45°	380	305
55°	214	193
65°	123	124
75°	62	65
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2549.3
2.5°	2535.1
5°	2501.9
7.5°	2444.9
10°	2368.9
12.5°	2283.5
15°	2188.5
17.5°	2088.8
20°	1984.4
22.5°	1884.7
25°	1780.3
27.5°	1647.3
30°	1466.9
32.5°	1253.3
35°	1006.4
37.5°	778.6
40°	602.9
42.5°	470.0
45°	379.8
47.5°	308.6
50°	270.6
52.5°	242.1
55°	213.6
57.5°	189.9
60°	166.2
62.5°	142.4
65°	123.4
67.5°	109.2
70°	90.2
72.5°	76.0
75°	61.7
77.5°	47.5
80°	33.2
82.5°	23.7
85°	14.2
87.5°	4.7
90°	0.0



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— 0°-180°







(END OF REPORT)