

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: P212510

Luminaire Tested: **LSR4B40D010BZ EC4B30509040 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212510
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 EC4B30509040 4LBWL1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR CLEAR 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

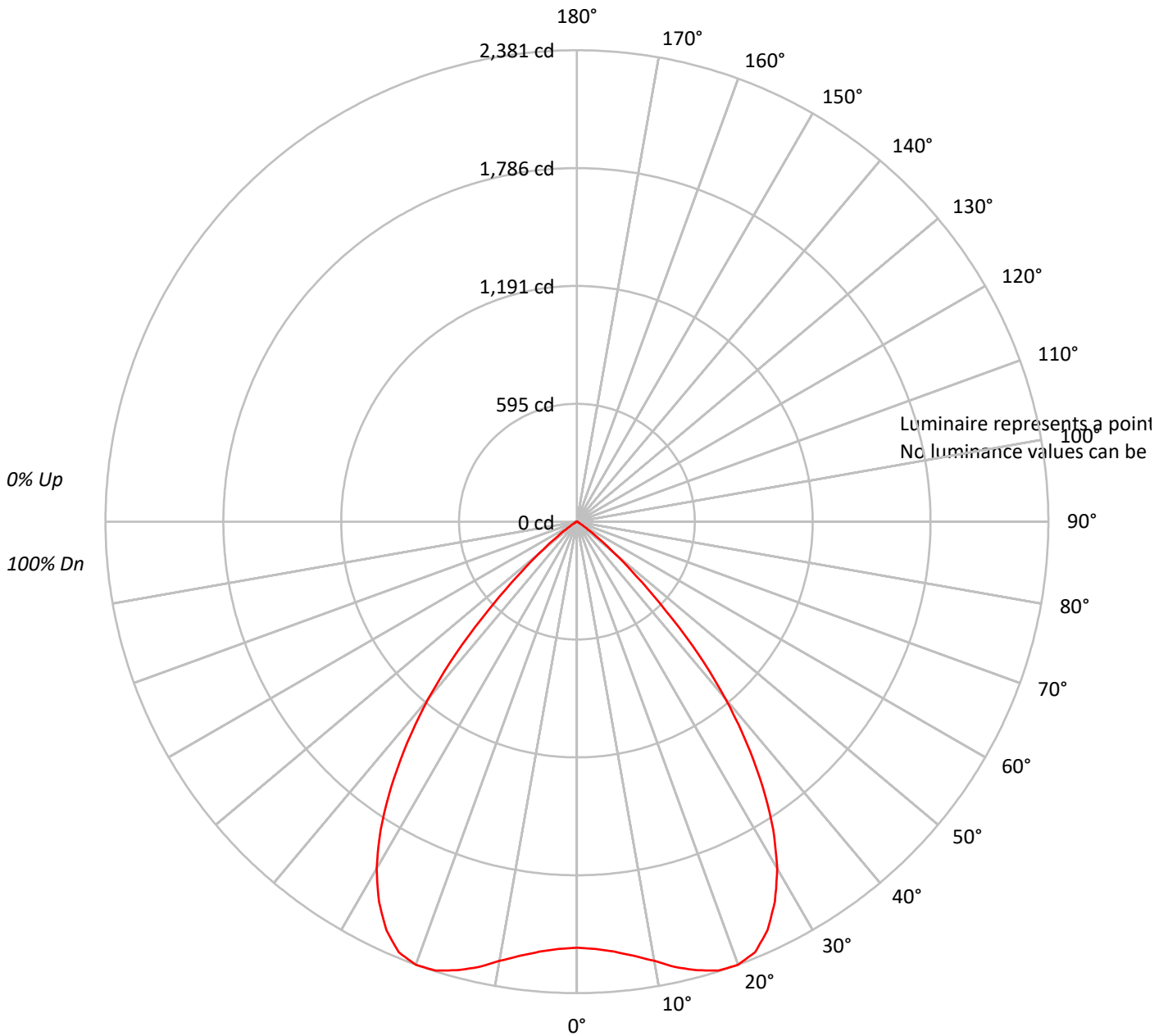
Lumens per Lamp: N/A
Luminaire Lumens: 3511.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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				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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	6.0
10°-20°	664.1	18.9
20°-30°	1036.0	29.5
30°-40°	1008.0	28.7
40°-50°	503.5	14.3
50°-60°	77.9	2.2
60°-70°	9.4	0.3
70°-80°	2.6	0.1
80°-90°	0.0	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°	1910.5	54.4
0°-40°	2918.5	83.1
0°-60°	3499.9	99.7
0°-90°	3511.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2152	
5°	2180	210
15°	2345	664
25°	2276	1036
35°	1637	1008
45°	632	503
55°	64	78
65°	8	9
75°	4	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2151.9
2.5°	2159.9
5°	2180.0
7.5°	2212.2
10°	2252.4
12.5°	2304.7
15°	2344.9
17.5°	2377.1
20°	2381.1
22.5°	2353.0
25°	2276.5
27.5°	2163.9
30°	2023.1
32.5°	1846.2
35°	1637.0
37.5°	1407.8
40°	1166.4
42.5°	909.0
45°	631.5
47.5°	406.2
50°	245.4
52.5°	132.7
55°	64.4
57.5°	28.2
60°	16.1
62.5°	12.1
65°	8.0
67.5°	8.0
70°	4.0
72.5°	4.0
75°	4.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)