

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: P212220

Luminaire Tested: **LSR4B40D010BZ EC4B30509024 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212220
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 EC4B30509024 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: 2924.6 lumens
Efficiency: N/A
Efficacy: 70.0 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

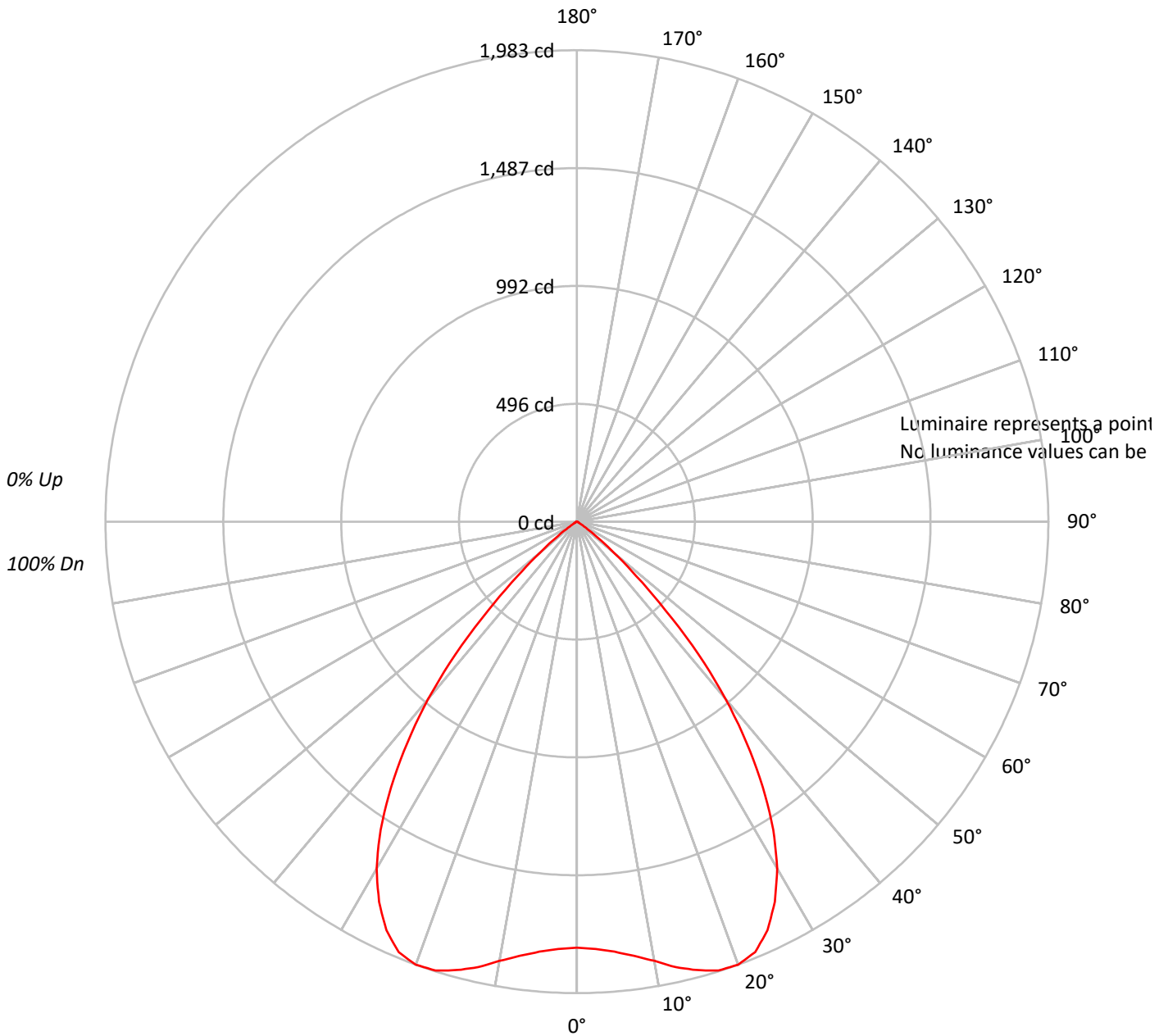
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92						92													
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84						84													
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77						77													
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70						70													
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						64													
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58						58													
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54						54													
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49						49													
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45						45													
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						42													

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	6.0
10°-20°	553.0	18.9
20°-30°	862.7	29.5
30°-40°	839.4	28.7
40°-50°	419.3	14.3
50°-60°	64.9	2.2
60°-70°	7.8	0.3
70°-80°	2.2	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°	1591.0	54.4
0°-40°	2430.5	83.1
0°-60°	2914.6	99.7
0°-90°	2924.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1792	
5°	1816	175
15°	1953	553
25°	1896	863
35°	1363	839
45°	526	419
55°	54	65
65°	7	8
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1792.0
2.5°	1798.7
5°	1815.5
7.5°	1842.3
10°	1875.7
12.5°	1919.3
15°	1952.8
17.5°	1979.6
20°	1982.9
22.5°	1959.5
25°	1895.8
27.5°	1802.1
30°	1684.8
32.5°	1537.4
35°	1363.3
37.5°	1172.3
40°	971.4
42.5°	757.0
45°	525.9
47.5°	338.3
50°	204.3
52.5°	110.5
55°	53.6
57.5°	23.4
60°	13.4
62.5°	10.0
65°	6.7
67.5°	6.7
70°	3.3
72.5°	3.3
75°	3.3
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)