

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: P212305

Luminaire Tested: **LSR4B40D010BZ EC4B30509727 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212305
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 EC4B30509727 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 1910.4 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

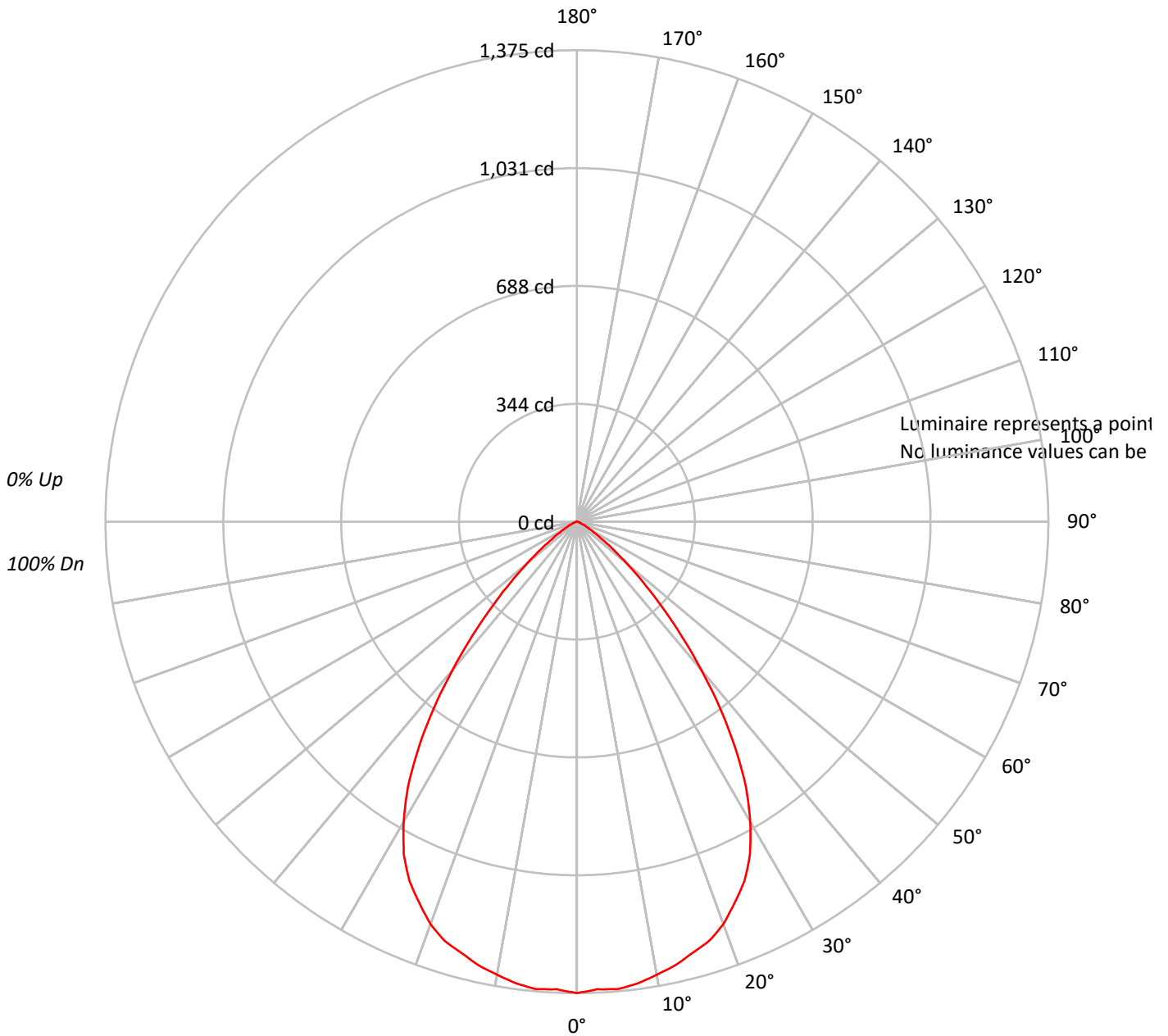
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92						92													
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83						83													
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76						76													
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69						69													
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63						63													
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57						57													
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53						53													
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48						48													
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45						45													
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41						41													

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	6.8
10°-20°	367.6	19.2
20°-30°	527.1	27.6
30°-40°	496.3	26.0
40°-50°	274.1	14.3
50°-60°	87.9	4.6
60°-70°	22.0	1.2
70°-80°	5.2	0.3
80°-90°	0.4	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°	1024.4	53.6
0°-40°	1520.7	79.6
0°-60°	1882.8	98.6
0°-90°	1910.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1375	
5°	1368	130
15°	1302	368
25°	1156	527
35°	805	496
45°	348	274
55°	90	88
65°	20	22
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1375.0
2.5°	1365.1
5°	1368.4
7.5°	1358.5
10°	1341.9
12.5°	1325.3
15°	1302.1
17.5°	1282.3
20°	1249.1
22.5°	1202.7
25°	1156.3
27.5°	1093.4
30°	1010.6
32.5°	917.8
35°	805.1
37.5°	685.9
40°	563.3
42.5°	450.6
45°	347.9
47.5°	261.8
50°	188.9
52.5°	132.5
55°	89.5
57.5°	59.6
60°	43.1
62.5°	29.8
65°	19.9
67.5°	13.3
70°	9.9
72.5°	6.6
75°	3.3
77.5°	3.3
80°	3.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)