

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: P210971

Luminaire Tested: **LSR4B10D010BZ EC4B10208040 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210971
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: LSR4B10D010BZ EC4B10208040 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 728.0 lumens
Efficiency: N/A
Efficacy: 73.5 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

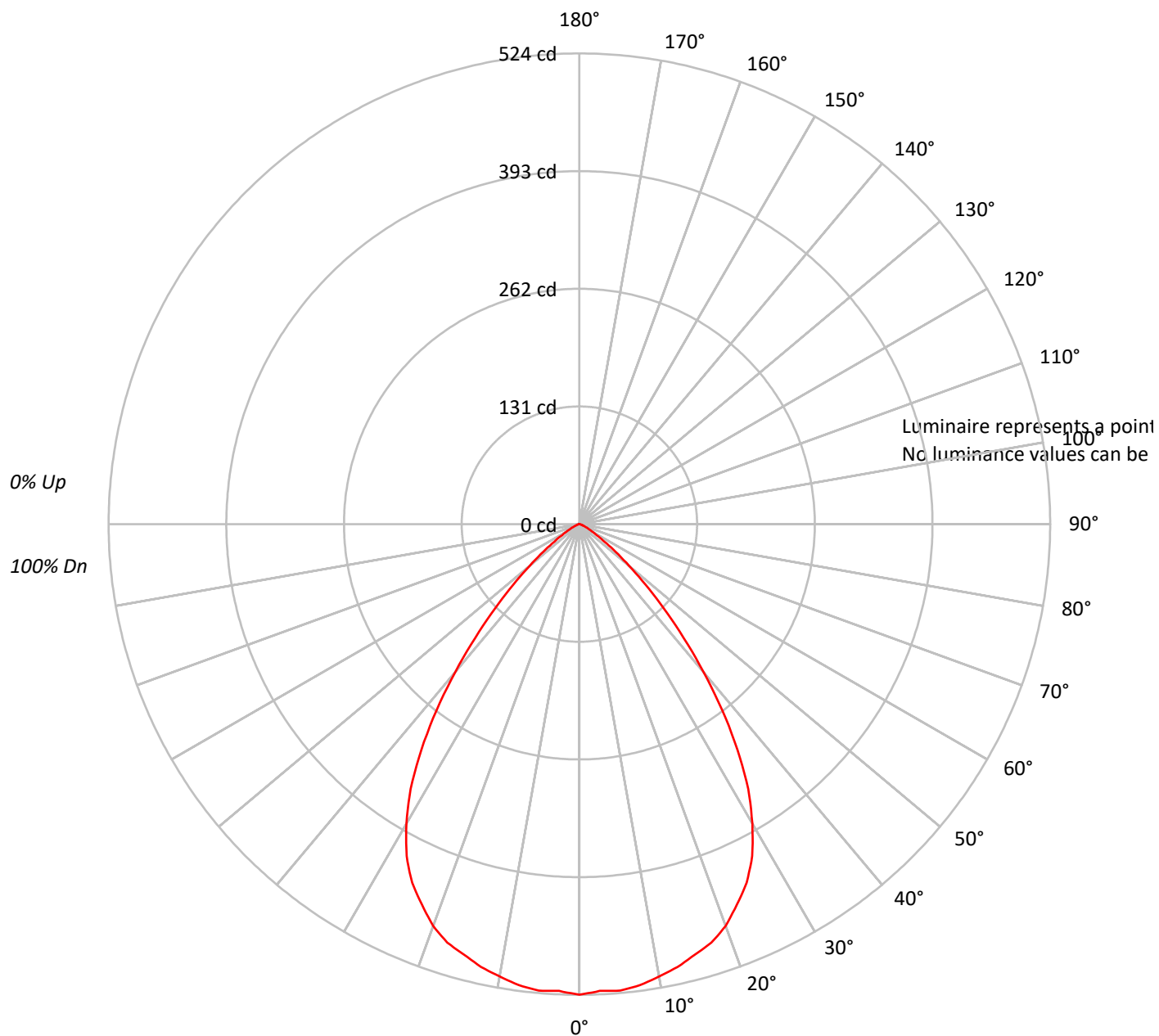
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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
1	113	110	107	104		110	107	105	103		103	101	99		100	98	96		96	95	94
2	106	100	96	92		104	99	95	91		95	92	89		92	90	87		90	87	85
3	100	92	87	82		98	91	86	81		88	84	80		86	82	79		83	80	77
4	94	85	78	74		92	84	78	73		81	76	72		79	75	71		77	74	71
5	88	78	72	67		86	77	71	66		75	70	66		74	69	65		72	68	64
6	83	72	65	61		81	71	65	60		70	64	60		68	63	59		67	63	59
7	78	67	60	55		76	66	60	55		65	59	55		64	58	55		63	58	54
8	73	62	56	51		72	62	55	51		61	55	50		59	54	50		58	54	50
9	69	58	51	47		68	58	51	47		57	51	47		56	50	46		55	50	46
10	65	54	48	43		64	54	48	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	6.8
10°-20°	140.1	19.2
20°-30°	200.9	27.6
30°-40°	189.1	26.0
40°-50°	104.4	14.3
50°-60°	33.5	4.6
60°-70°	8.4	1.2
70°-80°	2.0	0.3
80°-90°	0.2	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°	390.3	53.6
0°-40°	579.5	79.6
0°-60°	717.4	98.5
0°-90°	728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	524	
5°	521	49
15°	496	140
25°	441	201
35°	307	189
45°	133	104
55°	34	34
65°	8	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	523.9
2.5°	520.2
5°	521.4
7.5°	517.6
10°	511.3
12.5°	505.0
15°	496.2
17.5°	488.6
20°	476.0
22.5°	458.3
25°	440.6
27.5°	416.6
30°	385.1
32.5°	349.7
35°	306.8
37.5°	261.3
40°	214.6
42.5°	171.7
45°	132.6
47.5°	99.7
50°	72.0
52.5°	50.5
55°	34.1
57.5°	22.7
60°	16.4
62.5°	11.4
65°	7.6
67.5°	5.1
70°	3.8
72.5°	2.5
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)