

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: P211135

Luminaire Tested: **LSR4B15D010BZ EC4B10209027 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211135
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: LSR4B15D010BZ EC4B10209027 4LBNWH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 806.7 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

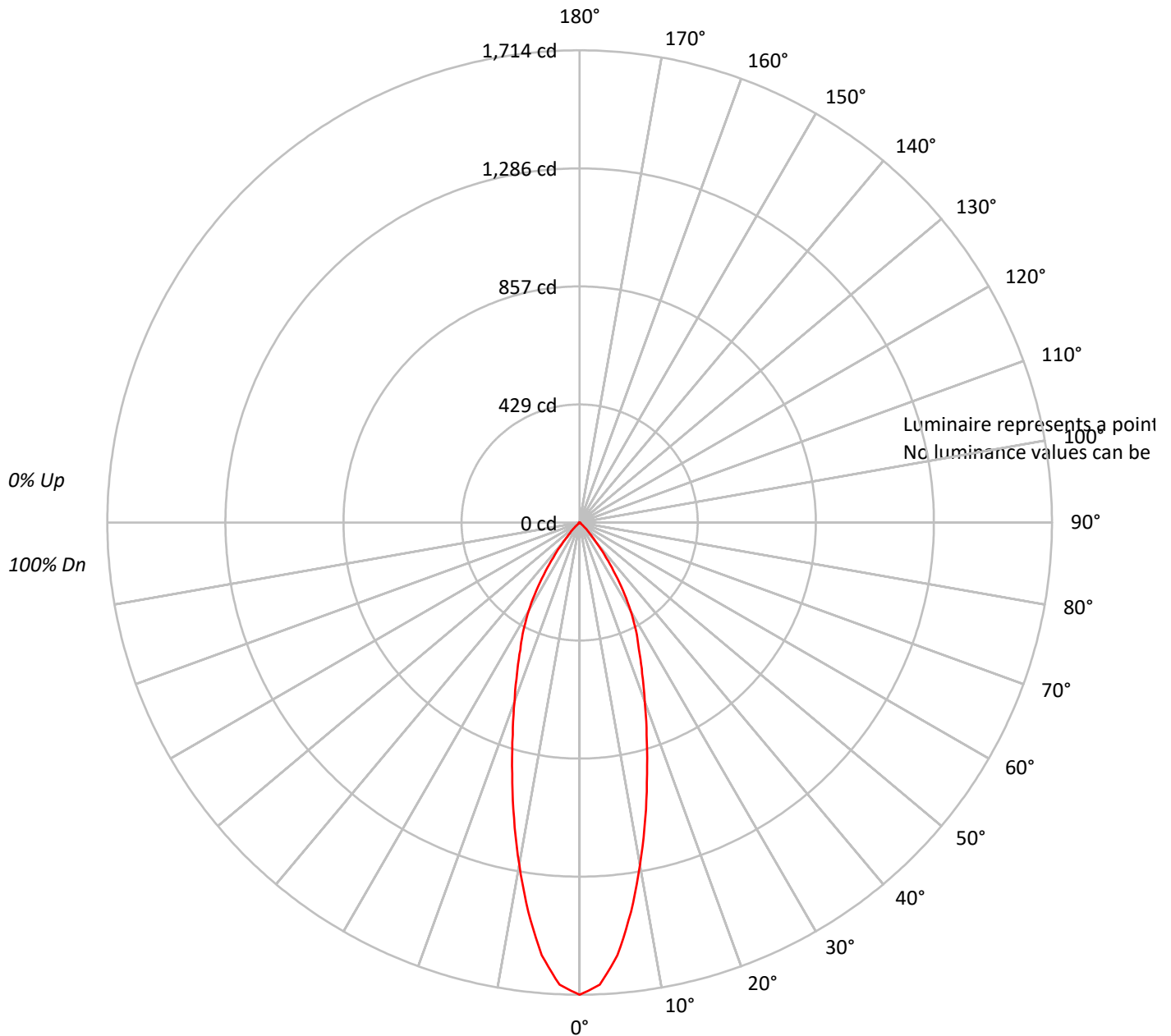
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





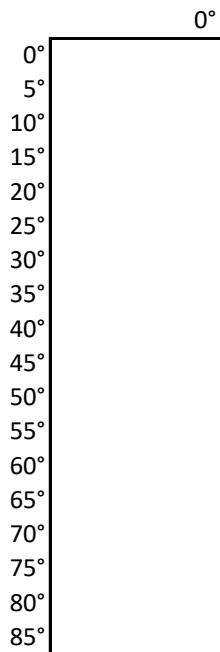
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	114	111	109	107		112	109	107	105		105	104	102		102	100	99		98	97	96
2	109	105	101	98		107	103	100	97		100	97	95		97	95	93		94	92	91
3	104	98	94	90		102	97	93	90		94	91	88		92	89	87		90	87	85
4	100	93	88	84		98	92	87	83		90	86	82		88	84	82		86	83	81
5	95	88	82	78		94	87	82	78		85	81	77		83	80	77		82	79	76
6	91	83	78	74		90	82	77	74		81	76	73		79	76	73		78	75	72
7	87	79	73	70		86	78	73	69		77	72	69		76	72	69		75	71	68
8	84	75	70	66		82	74	69	66		73	69	65		72	68	65		71	68	65
9	80	71	66	62		79	71	66	62		70	65	62		69	65	62		68	65	62
10	77	68	63	59		76	68	63	59		67	62	59		66	62	59		66	62	59

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	17.4
10°-20°	263.0	32.6
20°-30°	236.0	29.3
30°-40°	135.4	16.8
40°-50°	27.0	3.3
50°-60°	3.4	0.4
60°-70°	1.6	0.2
70°-80°	0.2	0.0
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°	639.1	79.2
0°-40°	774.5	96.0
0°-60°	805.0	99.8
0°-90°	806.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1714	
5°	1576	140
15°	944	263
25°	510	236
35°	214	135
45°	29	27
55°	4	3
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1714.4
2.5°	1679.6
5°	1576.5
7.5°	1426.1
10°	1261.8
12.5°	1100.2
15°	944.2
17.5°	807.8
20°	690.8
22.5°	593.3
25°	509.7
27.5°	442.9
30°	369.1
32.5°	293.9
35°	214.5
37.5°	146.2
40°	90.5
42.5°	54.3
45°	29.2
47.5°	12.5
50°	5.6
52.5°	4.2
55°	4.2
57.5°	2.8
60°	2.8
62.5°	1.4
65°	1.4
67.5°	1.4
70°	1.4
72.5°	0.0
75°	0.0
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)