

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: P210989

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210989
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 EC4B10209040 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE 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: 664.6 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

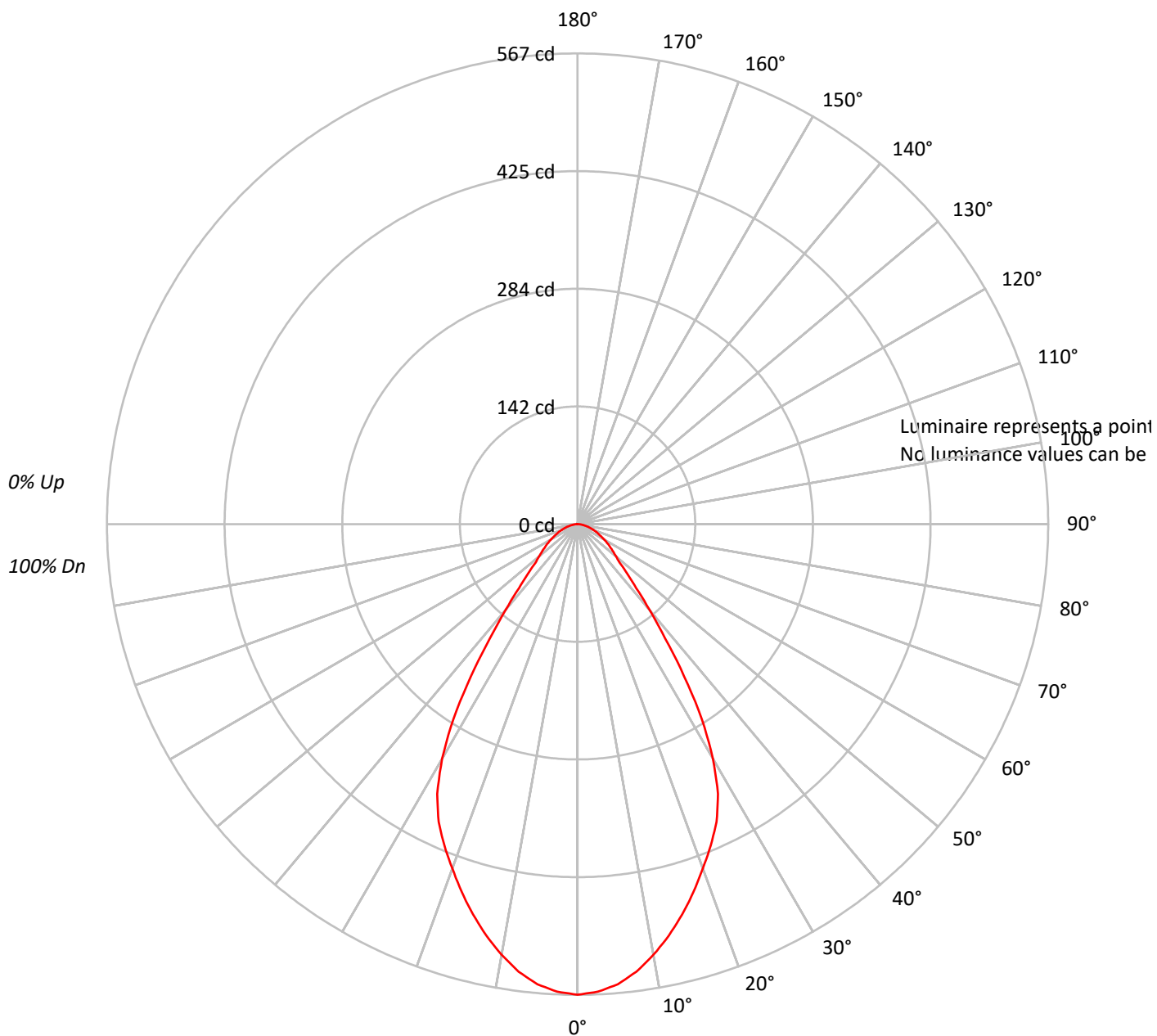
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





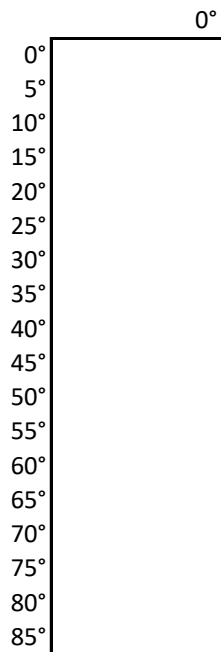
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80		96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71		90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59		80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50		71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46		68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	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°	52.2	7.8
10°-20°	136.5	20.5
20°-30°	179.6	27.0
30°-40°	139.8	21.0
40°-50°	67.9	10.2
50°-60°	42.9	6.5
60°-70°	27.7	4.2
70°-80°	14.5	2.2
80°-90°	3.6	0.5
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°	368.2	55.4
0°-40°	508.0	76.4
0°-60°	618.8	93.1
0°-90°	664.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	567	
5°	556	52
15°	487	136
25°	396	180
35°	224	140
45°	84	68
55°	48	43
65°	27	28
75°	14	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	566.9
2.5°	563.7
5°	556.4
7.5°	543.7
10°	526.8
12.5°	507.8
15°	486.7
17.5°	464.5
20°	441.3
22.5°	419.1
25°	395.9
27.5°	366.3
30°	326.2
32.5°	278.7
35°	223.8
37.5°	173.1
40°	134.1
42.5°	104.5
45°	84.5
47.5°	68.6
50°	60.2
52.5°	53.8
55°	47.5
57.5°	42.2
60°	36.9
62.5°	31.7
65°	27.4
67.5°	24.3
70°	20.1
72.5°	16.9
75°	13.7
77.5°	10.6
80°	7.4
82.5°	5.3
85°	3.2
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)