

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: P210957

Luminaire Tested: **LSR4B10D010BZ EC4B10208040 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210957
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 4LBNGPH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH 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: 521.1 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

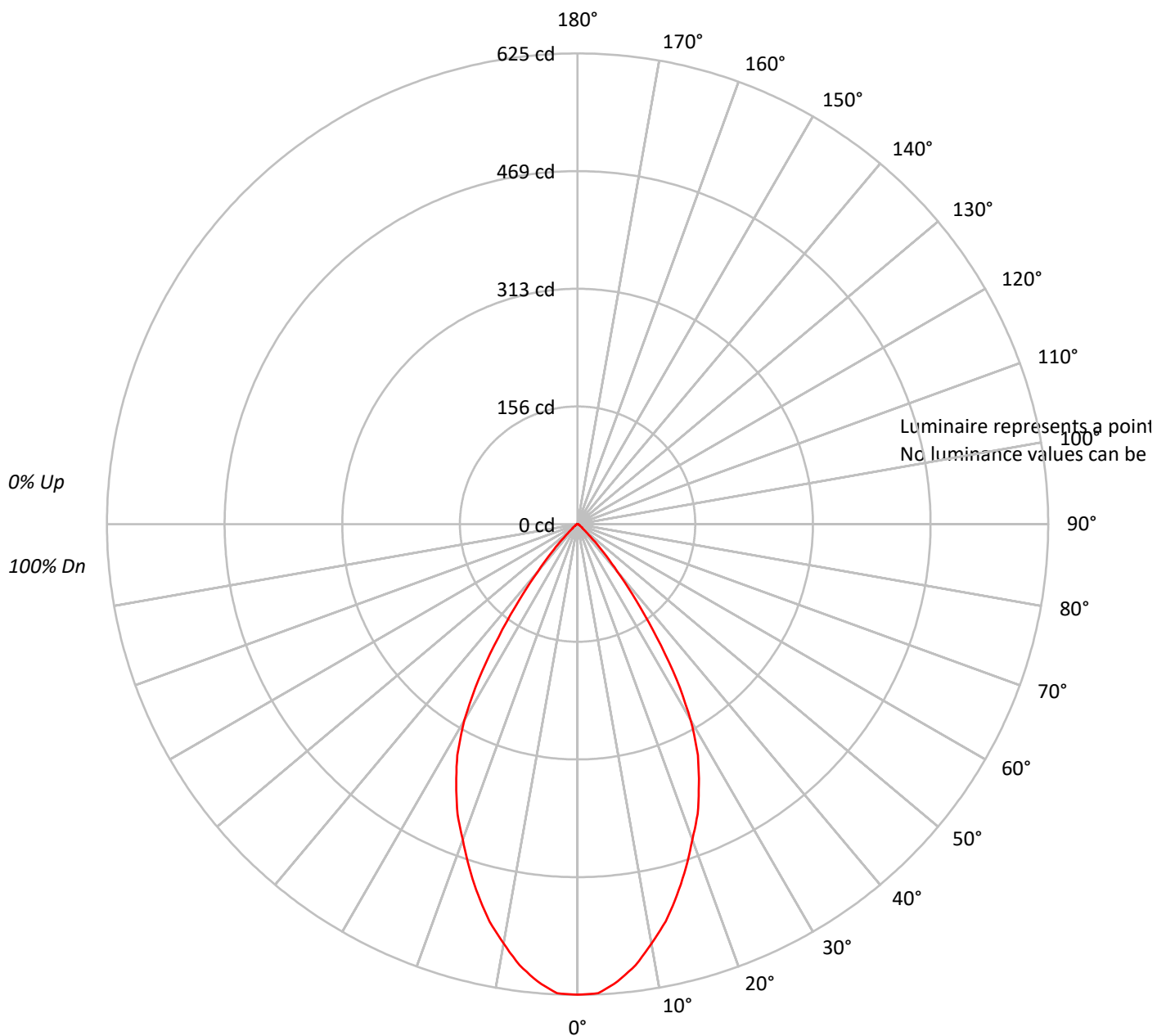
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





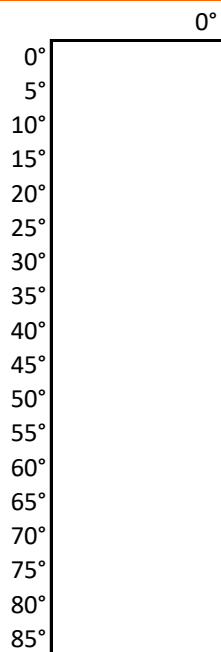
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	111	108	106		111	109	106	104		105	103	101			101	100	98			97
2	108	103	99	96		106	101	98	95		98	95	93			95	93	91			92
3	103	96	91	87		101	95	90	87		92	88	85			90	87	84			88
4	97	90	84	80		96	89	84	80		87	82	79			85	81	78			83
5	93	84	78	74		91	83	78	74		82	77	73			80	76	73			78
6	88	79	73	69		86	78	73	69		77	72	68			75	71	68			74
7	84	74	68	64		82	74	68	64		72	67	64			71	67	63			70
8	80	70	64	60		78	70	64	60		68	63	60			67	63	59			66
9	76	66	60	56		75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53		71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	10.9
10°-20°	142.4	27.3
20°-30°	173.6	33.3
30°-40°	114.5	22.0
40°-50°	26.3	5.1
50°-60°	5.0	1.0
60°-70°	1.9	0.4
70°-80°	0.5	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°	372.8	71.5
0°-40°	487.3	93.5
0°-60°	518.7	99.5
0°-90°	521.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	625	
5°	610	57
15°	510	142
25°	381	174
35°	183	115
45°	29	26
55°	5	5
65°	1	2
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	624.8
2.5°	623.6
5°	609.7
7.5°	590.8
10°	565.5
12.5°	540.3
15°	510.0
17.5°	478.4
20°	445.6
22.5°	416.6
25°	381.2
27.5°	345.9
30°	300.4
32.5°	244.9
35°	183.0
37.5°	127.5
40°	82.1
42.5°	50.5
45°	29.0
47.5°	15.1
50°	8.8
52.5°	7.6
55°	5.0
57.5°	3.8
60°	3.8
62.5°	2.5
65°	1.3
67.5°	1.3
70°	1.3
72.5°	1.3
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)