

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: P210740

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210740
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 EC4B10208027 4LBWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 858.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

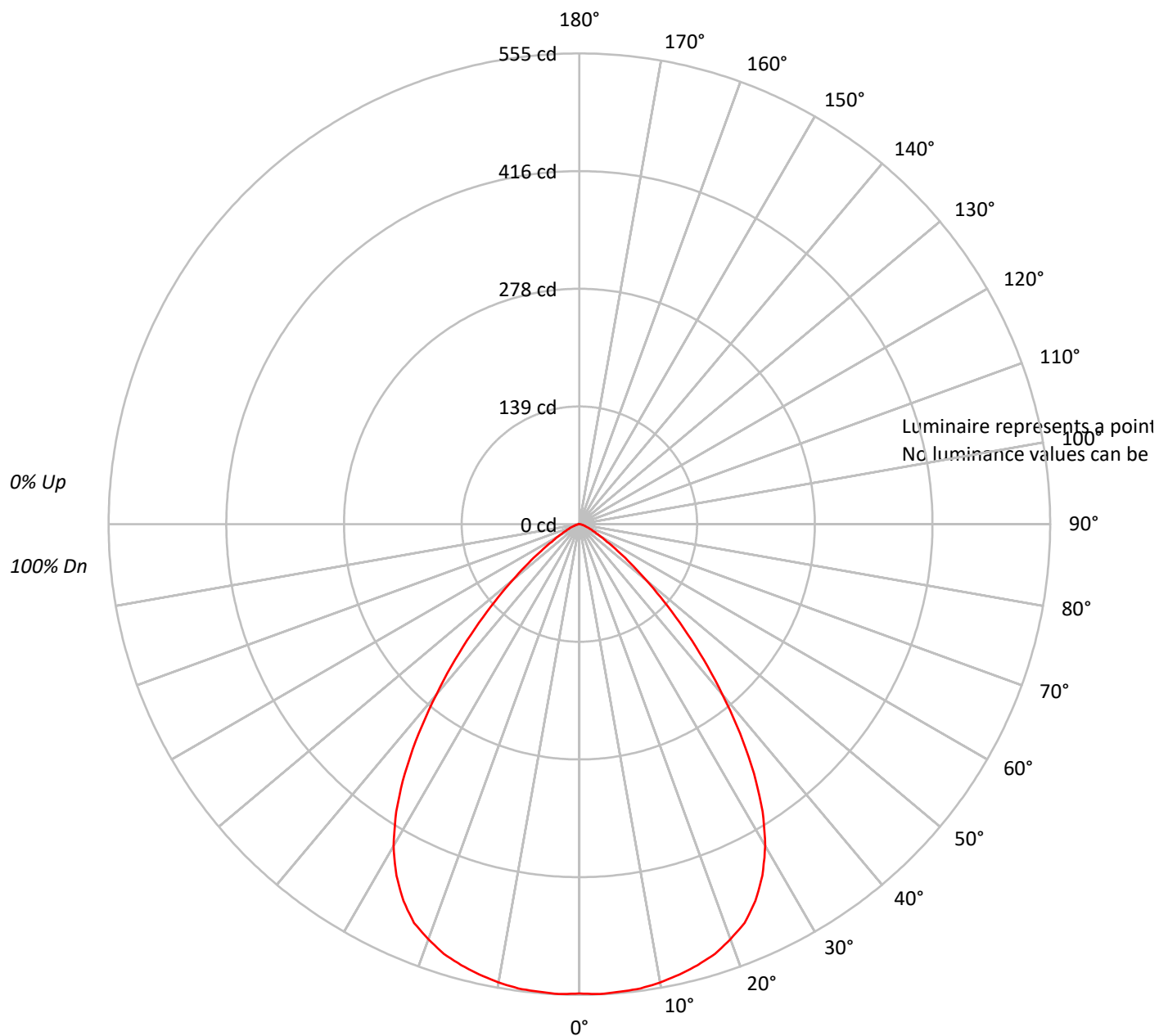
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot

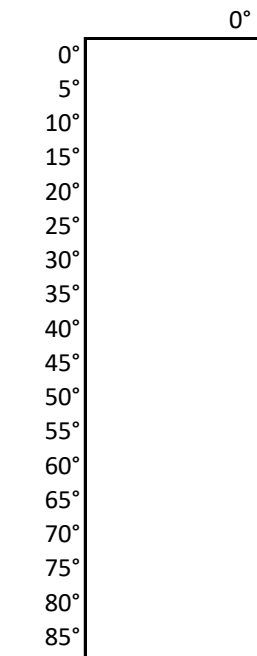


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					0	
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	102	102	100
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93	91
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84	82
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76	74
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69	67
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62	61
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57	55
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52	50
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48	46
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44	43
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	6.1
10°-20°	151.9	17.7
20°-30°	224.1	26.1
30°-40°	221.1	25.8
40°-50°	135.3	15.8
50°-60°	51.9	6.0
60°-70°	16.2	1.9
70°-80°	4.7	0.6
80°-90°	0.6	0.1
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°	428.7	49.9
0°-40°	649.8	75.7
0°-60°	837.0	97.5
0°-90°	858.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	553	
5°	553	53
15°	538	152
25°	490	224
35°	359	221
45°	174	135
55°	55	52
65°	15	16
75°	5	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	553.4
2.5°	554.6
5°	553.4
7.5°	552.2
10°	548.8
12.5°	544.1
15°	538.3
17.5°	531.3
20°	520.8
22.5°	509.1
25°	490.5
27.5°	467.2
30°	438.1
32.5°	402.0
35°	358.8
37.5°	311.1
40°	262.1
42.5°	216.7
45°	173.6
47.5°	135.1
50°	102.5
52.5°	75.7
55°	54.8
57.5°	38.4
60°	28.0
62.5°	21.0
65°	15.1
67.5°	11.7
70°	8.2
72.5°	5.8
75°	4.7
77.5°	2.3
80°	2.3
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)