

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: P210716

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210716
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 4LBSCMMS1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 905.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

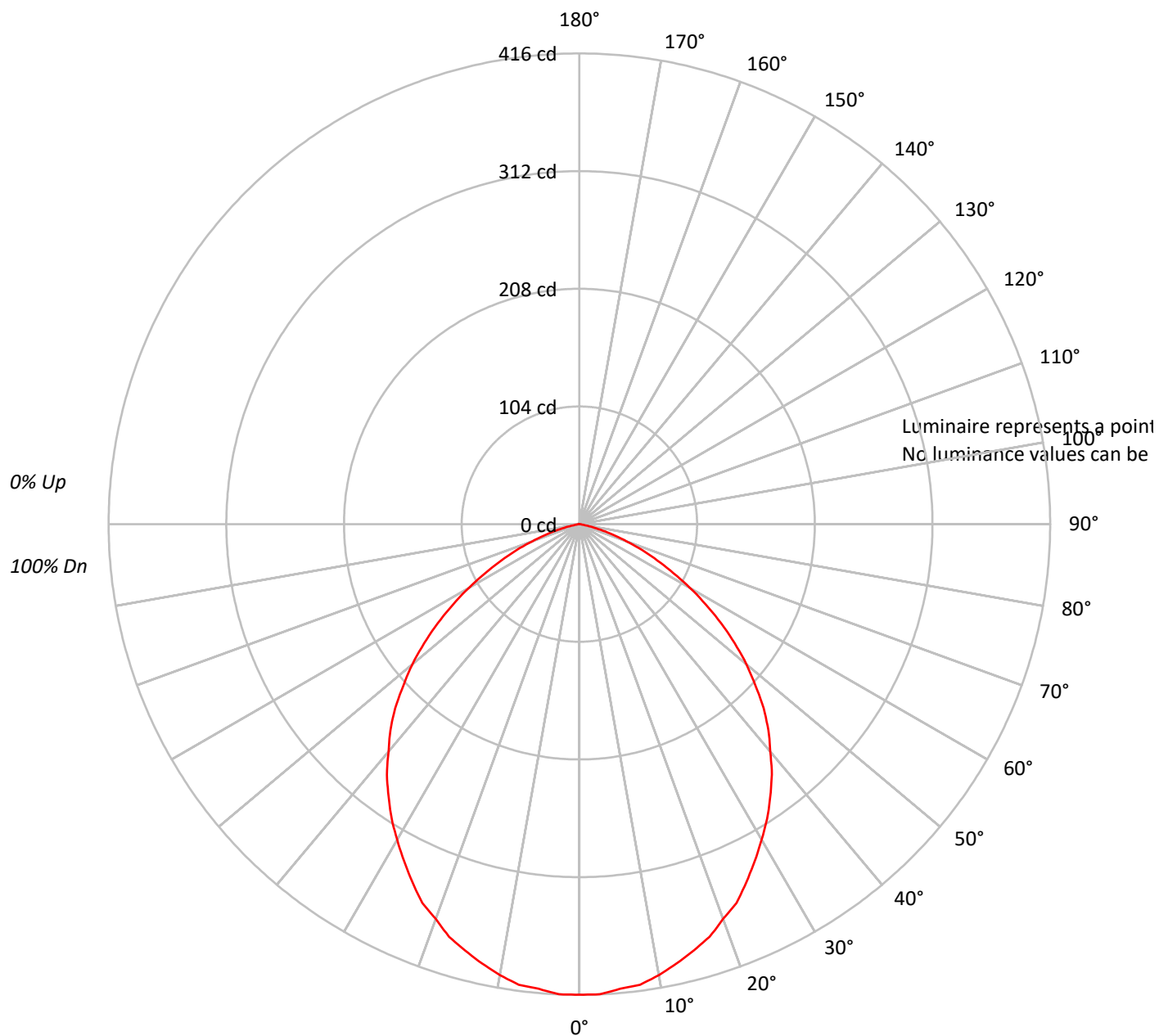
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	111	107	103	100		108	105	101	98		100	98	95		97	94	92		93	91	90
2	102	95	89	84		100	93	88	83		90	85	81		86	83	79		83	80	78
3	94	85	77	72		92	83	76	71		80	74	70		77	73	69		75	71	67
4	87	76	68	62		84	74	67	61		72	66	61		70	64	60		68	63	59
5	80	68	60	54		78	67	59	54		65	58	53		63	57	53		61	56	52
6	74	62	54	48		72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	42		67	56	48	42		54	47	42		53	46	42		51	46	41
8	64	52	44	38		63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35		59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	36	31		55	43	36	31		43	36	31		42	35	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.3
10°-20°	110.0	12.1
20°-30°	160.6	17.7
30°-40°	183.7	20.3
40°-50°	176.6	19.5
50°-60°	136.3	15.1
60°-70°	76.1	8.4
70°-80°	22.1	2.4
80°-90°	1.0	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°	309.8	34.2
0°-40°	493.5	54.5
0°-60°	806.4	89.0
0°-90°	905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	416	
5°	412	39
15°	390	110
25°	349	161
35°	294	184
45°	230	177
55°	153	136
65°	76	76
75°	19	22
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	415.9
2.5°	415.9
5°	412.3
7.5°	410.6
10°	404.7
12.5°	397.7
15°	390.1
17.5°	382.5
20°	371.3
22.5°	362.6
25°	349.1
27.5°	335.6
30°	322.1
32.5°	308.7
35°	294.0
37.5°	279.4
40°	262.4
42.5°	247.2
45°	230.2
47.5°	210.9
50°	192.7
52.5°	172.8
55°	152.9
57.5°	132.4
60°	113.0
62.5°	93.7
65°	76.1
67.5°	59.7
70°	44.5
72.5°	31.0
75°	19.3
77.5°	10.0
80°	3.5
82.5°	1.2
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)