

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: P210744

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210744
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 EC4B10209027 4LBCSMB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 861.5 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

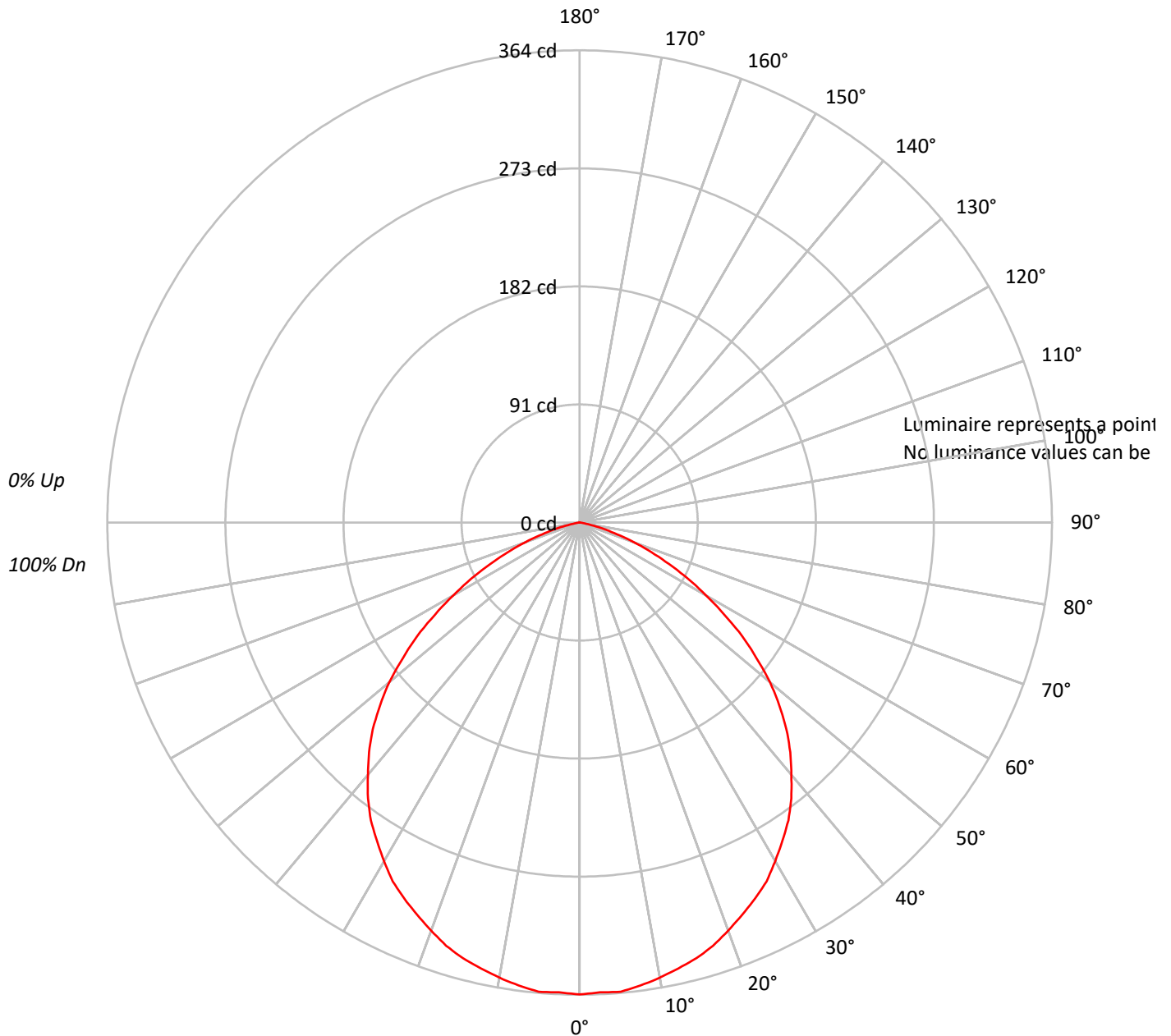
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot

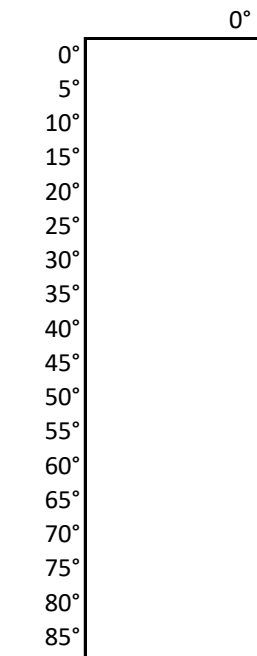


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					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	111	107	103	100		108	104	101	98		100	98	95		96	94	92		93	91	90	88
2	102	95	89	84		99	93	87	83		89	85	81		86	82	79		83	80	77	75
3	93	84	77	71		91	83	76	70		80	74	69		77	72	68		74	70	67	65
4	86	75	67	61		84	74	66	61		71	65	60		69	63	59		67	62	58	56
5	79	67	59	53		77	66	59	53		64	57	52		62	56	52		61	55	51	49
6	74	61	53	47		72	60	52	46		58	51	46		57	50	46		55	50	45	43
7	68	55	47	41		67	55	47	41		53	46	41		52	45	41		50	45	40	39
8	64	51	43	37		62	50	42	37		49	42	37		48	41	37		46	41	36	35
9	60	47	39	33		58	46	39	33		45	38	33		44	38	33		43	37	33	31
10	56	43	35	30		55	43	35	30		42	35	30		41	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	4.0
10°-20°	98.0	11.4
20°-30°	147.3	17.1
30°-40°	174.8	20.3
40°-50°	173.0	20.1
50°-60°	135.9	15.8
60°-70°	76.2	8.8
70°-80°	21.4	2.5
80°-90°	0.3	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°	279.8	32.5
0°-40°	454.6	52.8
0°-60°	763.5	88.6
0°-90°	861.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	364	
5°	363	34
15°	348	98
25°	320	147
35°	280	175
45°	225	173
55°	153	136
65°	76	76
75°	18	21
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	363.8
2.5°	362.5
5°	363.1
7.5°	360.0
10°	356.3
12.5°	352.0
15°	347.7
17.5°	342.1
20°	334.7
22.5°	327.3
25°	319.9
27.5°	311.9
30°	301.4
32.5°	290.9
35°	280.4
37.5°	268.0
40°	253.8
42.5°	240.2
45°	225.4
47.5°	208.7
50°	191.5
52.5°	171.7
55°	153.2
57.5°	132.2
60°	112.4
62.5°	94.5
65°	76.0
67.5°	59.9
70°	44.5
72.5°	30.3
75°	18.5
77.5°	9.3
80°	2.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)