

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: P210976

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210976
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 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: 910.2 lumens
Efficiency: N/A
Efficacy: 91.9 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

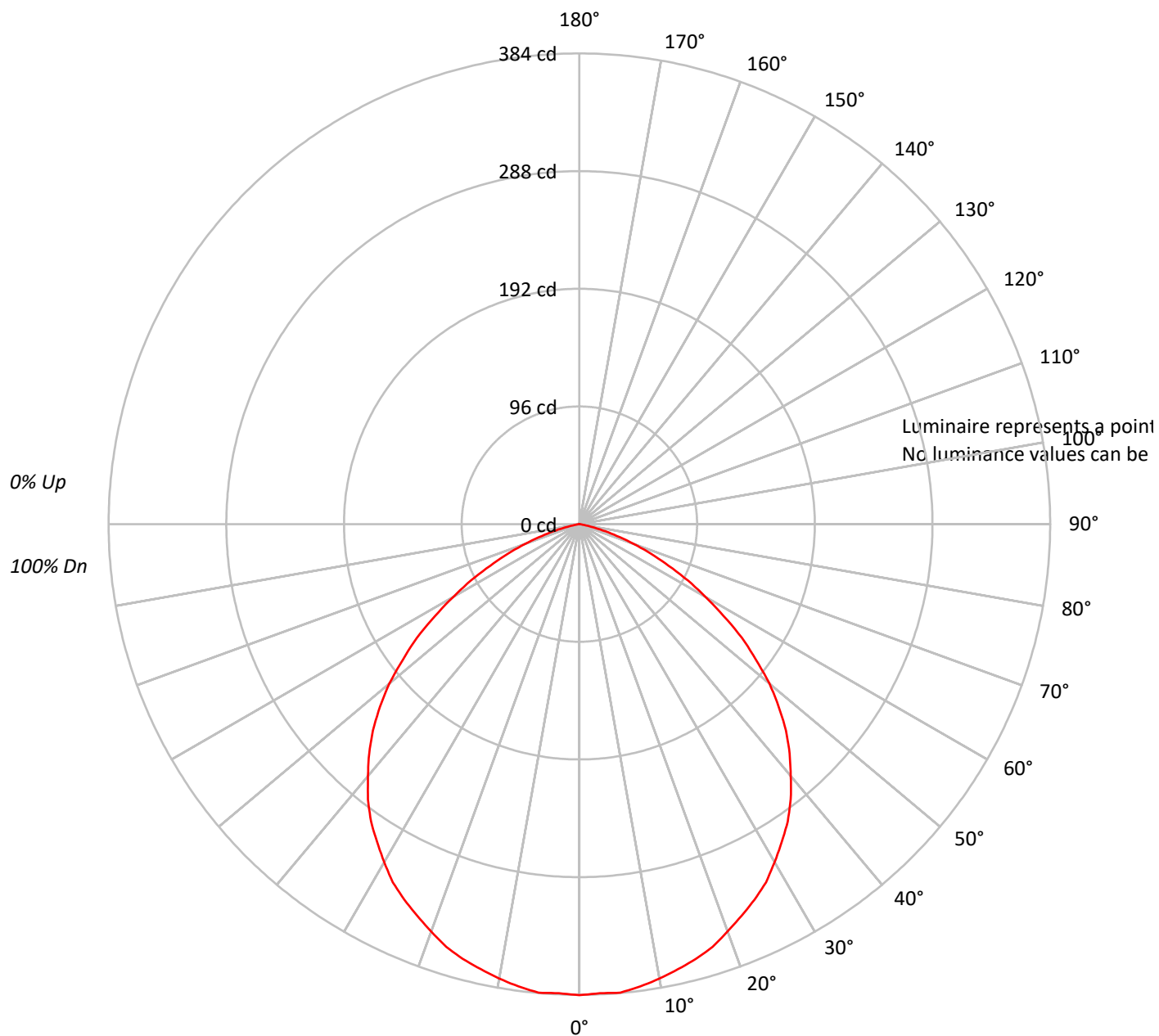
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





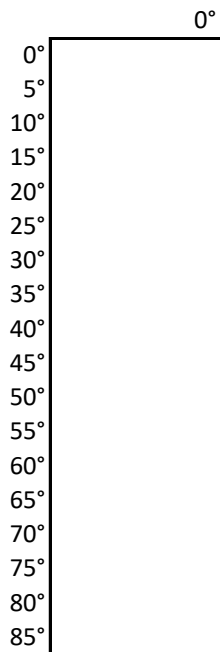
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	4.0
10°-20°	103.6	11.4
20°-30°	155.7	17.1
30°-40°	184.7	20.3
40°-50°	182.8	20.1
50°-60°	143.6	15.8
60°-70°	80.5	8.8
70°-80°	22.6	2.5
80°-90°	0.4	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°	295.6	32.5
0°-40°	480.3	52.8
0°-60°	806.7	88.6
0°-90°	910.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	384	
5°	384	36
15°	367	104
25°	338	156
35°	296	185
45°	238	183
55°	162	144
65°	80	81
75°	20	23
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	384.3
2.5°	383.0
5°	383.7
7.5°	380.4
10°	376.5
12.5°	371.9
15°	367.3
17.5°	361.5
20°	353.6
22.5°	345.8
25°	338.0
27.5°	329.5
30°	318.4
32.5°	307.3
35°	296.2
37.5°	283.2
40°	268.2
42.5°	253.8
45°	238.2
47.5°	220.5
50°	202.3
52.5°	181.4
55°	161.8
57.5°	139.6
60°	118.8
62.5°	99.8
65°	80.3
67.5°	63.3
70°	47.0
72.5°	32.0
75°	19.6
77.5°	9.8
80°	2.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)