

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: P210789

Luminaire Tested: **LSR4B10D010BZ EC4B10209727 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210789
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 EC4B10209727 4LBSB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR 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: 661.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

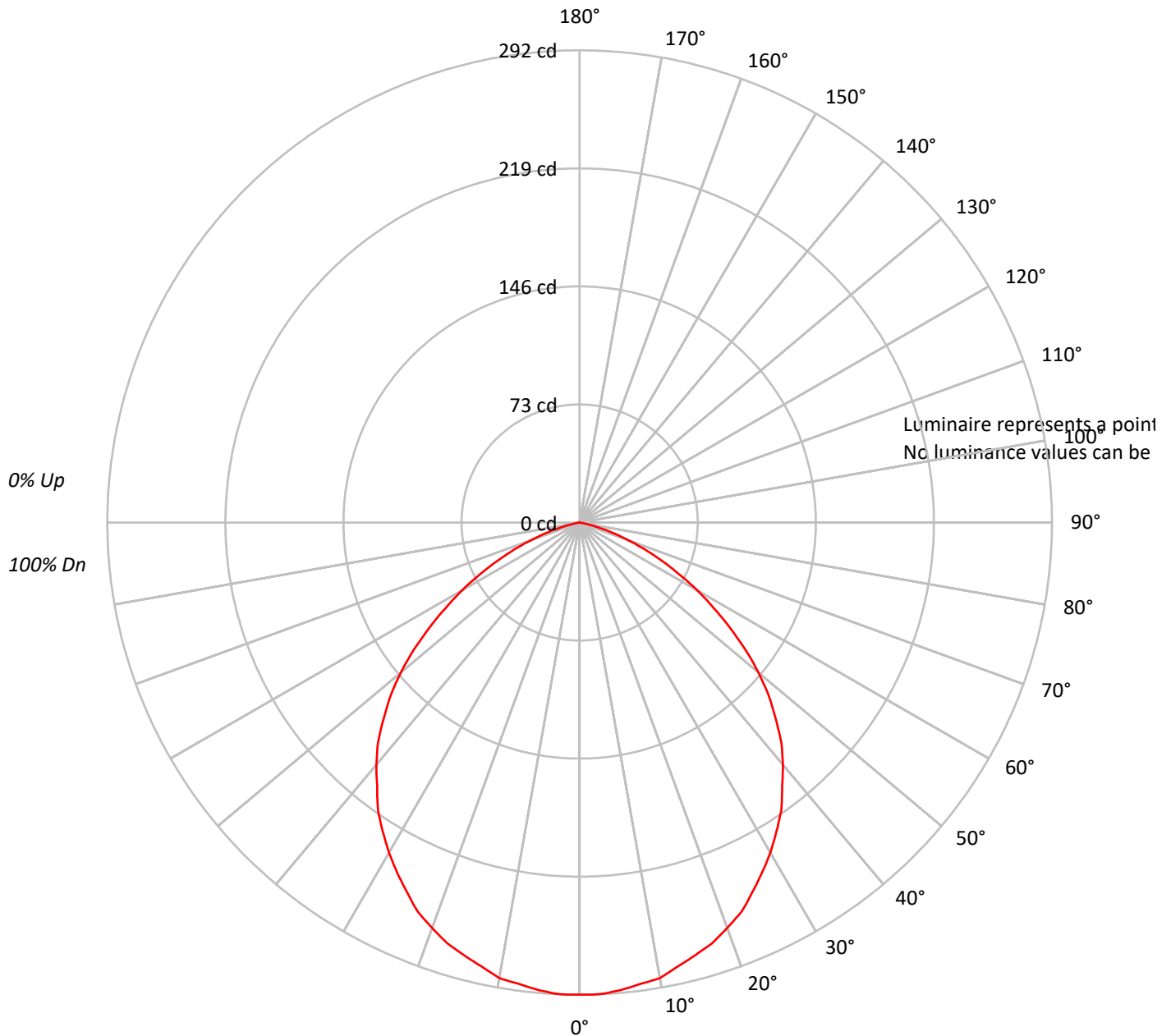
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





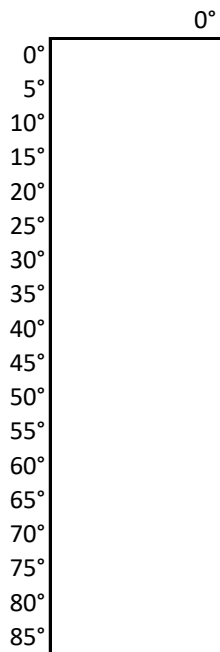
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	93		93	91	90
2	102	95	89	84		100	93	88	83		90	85	81		86	83	79		84	80	78
3	94	84	77	72		91	83	76	71		80	74	70		77	73	69		75	71	67
4	86	76	68	62		84	74	67	61		72	65	60		70	64	60		68	63	59
5	80	68	60	54		78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	53	47		72	61	53	47		59	52	47		57	51	46		56	50	46
7	69	56	48	42		67	55	48	42		54	47	42		52	46	41		51	45	41
8	64	51	43	38		63	51	43	38		49	42	37		48	42	37		47	41	37
9	60	47	39	34		59	47	39	34		46	39	34		45	38	34		44	38	34
10	56	44	36	31		55	43	36	31		42	36	31		41	35	31		40	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	4.2
10°-20°	78.2	11.8
20°-30°	116.3	17.6
30°-40°	135.4	20.4
40°-50°	131.9	19.9
50°-60°	101.5	15.3
60°-70°	56.1	8.5
70°-80°	14.9	2.2
80°-90°	0.1	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°	222.1	33.6
0°-40°	357.4	54.0
0°-60°	590.9	89.3
0°-90°	661.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	292	
5°	290	28
15°	277	78
25°	252	116
35°	217	135
45°	171	132
55°	113	101
65°	56	56
75°	13	15
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	292.0
2.5°	292.0
5°	290.3
7.5°	287.8
10°	286.1
12.5°	281.1
15°	276.9
17.5°	272.7
20°	266.8
22.5°	260.9
25°	252.5
27.5°	244.2
30°	235.8
32.5°	226.5
35°	217.3
37.5°	205.6
40°	195.5
42.5°	184.6
45°	171.2
47.5°	158.6
50°	144.3
52.5°	129.2
55°	113.3
57.5°	98.2
60°	83.9
62.5°	69.6
65°	56.2
67.5°	43.6
70°	31.9
72.5°	21.8
75°	12.6
77.5°	5.9
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)