

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: P211411

Luminaire Tested: **LSR4B15D010BZ EC4B10209050 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211411
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: LSR4B15D010BZ EC4B10209050 4LBCSMB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1272.7 lumens
Efficiency: N/A
Efficacy: 89.0 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

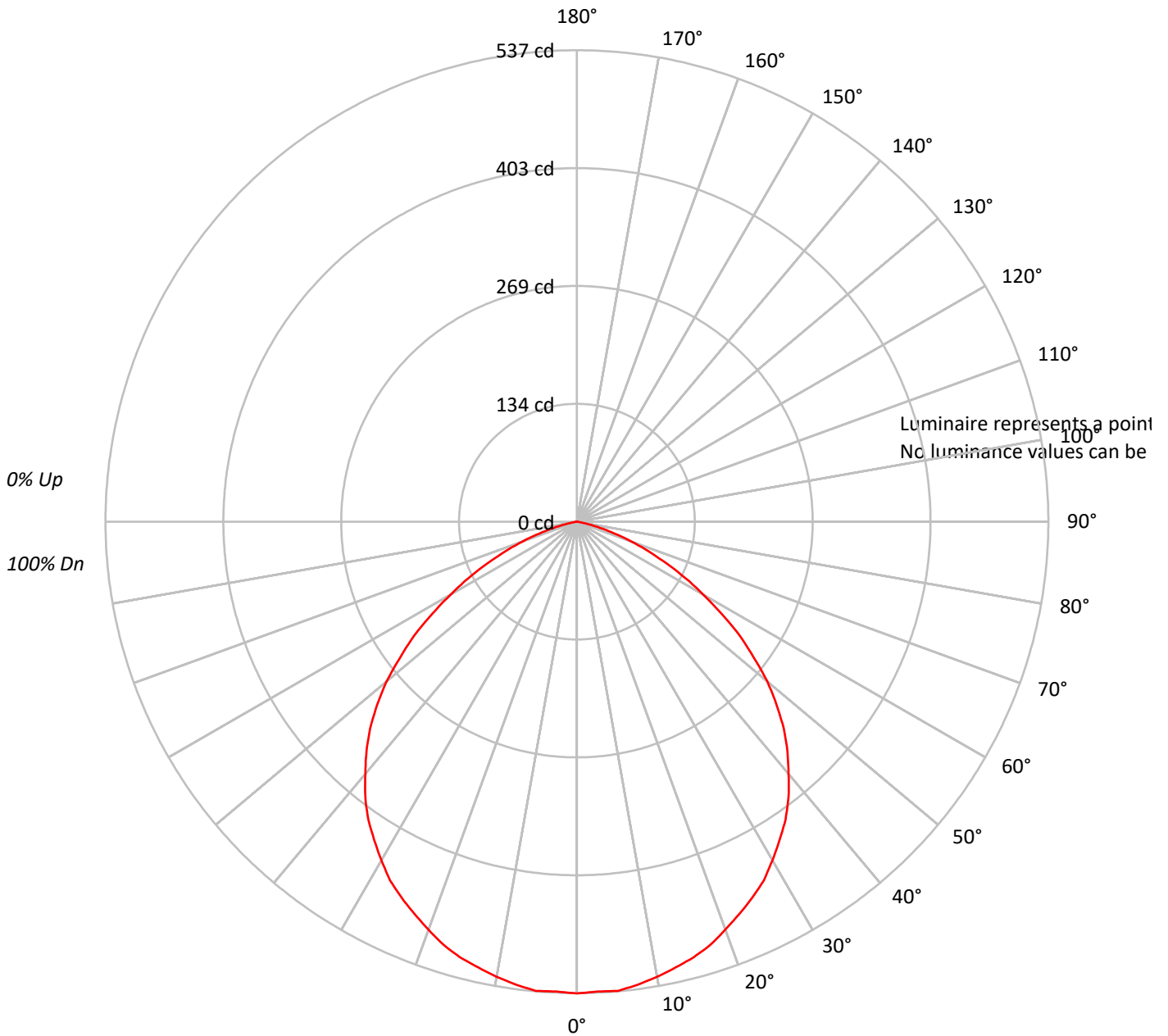
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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						100													
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88						88													
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75						75													
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65						65													
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56						56													
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49						49													
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43						43													
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39						39													
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35						35													
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31						31													
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28						28													

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	4.0
10°-20°	144.8	11.4
20°-30°	217.7	17.1
30°-40°	258.3	20.3
40°-50°	255.6	20.1
50°-60°	200.8	15.8
60°-70°	112.6	8.8
70°-80°	31.6	2.5
80°-90°	0.5	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°	413.3	32.5
0°-40°	671.7	52.8
0°-60°	1128.1	88.6
0°-90°	1272.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	537	
5°	536	51
15°	514	145
25°	473	218
35°	414	258
45°	333	256
55°	226	201
65°	112	113
75°	27	32
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	537.4
2.5°	535.6
5°	536.5
7.5°	531.9
10°	526.5
12.5°	520.1
15°	513.7
17.5°	505.5
20°	494.5
22.5°	483.6
25°	472.6
27.5°	460.8
30°	445.3
32.5°	429.8
35°	414.2
37.5°	396.0
40°	375.0
42.5°	354.9
45°	333.0
47.5°	308.4
50°	282.9
52.5°	253.7
55°	226.3
57.5°	195.3
60°	166.1
62.5°	139.6
65°	112.2
67.5°	88.5
70°	65.7
72.5°	44.7
75°	27.4
77.5°	13.7
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)