

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: P211469

Luminaire Tested: **LSR4B20D010BZ EC4B10208027 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211469
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: LSR4B20D010BZ EC4B10208027 4LBCSMB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.2 lumens
Efficiency: N/A
Efficacy: 91.0 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

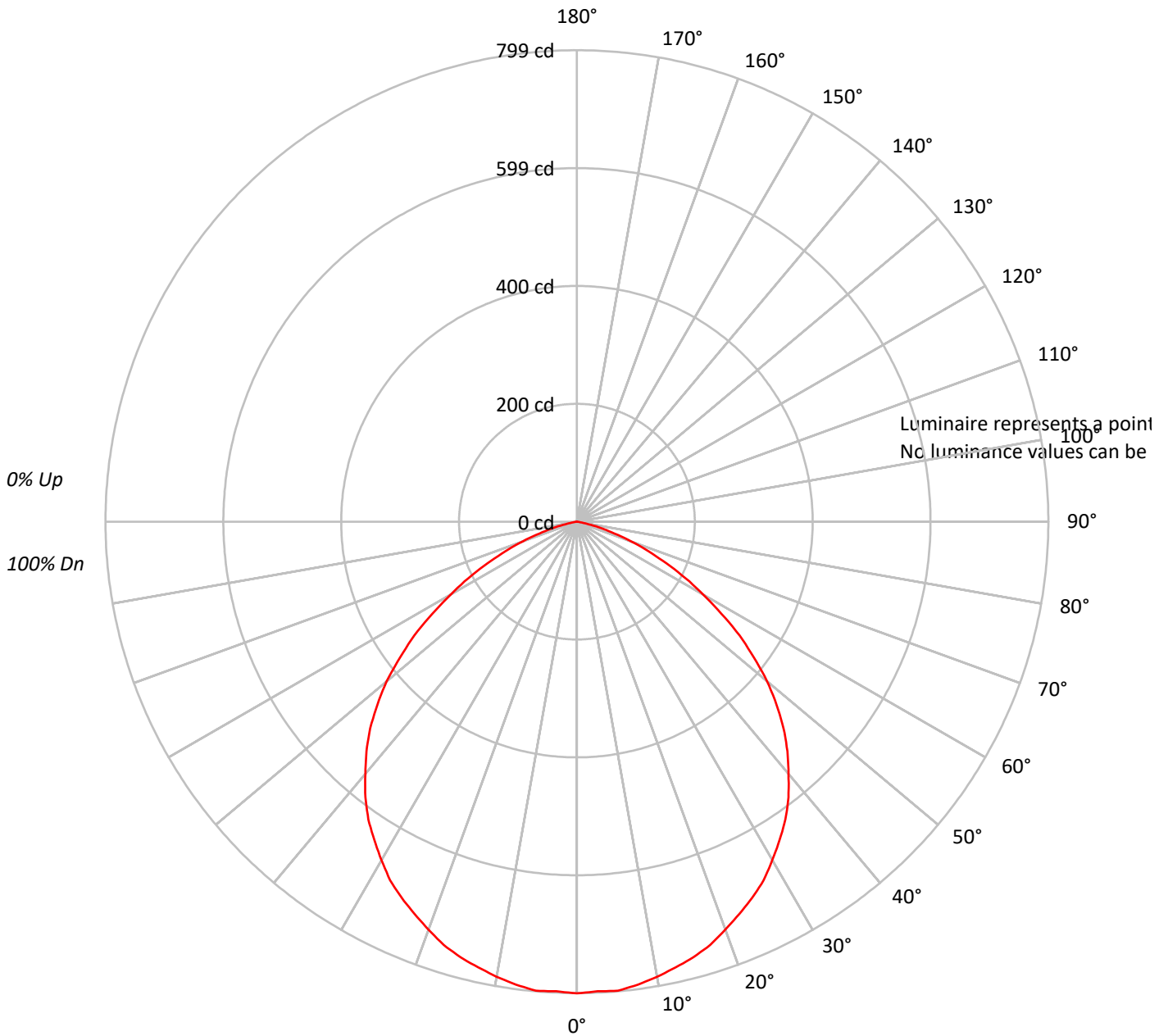
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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°	75.6	4.0
10°-20°	215.4	11.4
20°-30°	323.8	17.1
30°-40°	384.2	20.3
40°-50°	380.2	20.1
50°-60°	298.6	15.8
60°-70°	167.5	8.8
70°-80°	47.0	2.5
80°-90°	0.7	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°	614.8	32.5
0°-40°	999.1	52.8
0°-60°	1677.9	88.6
0°-90°	1893.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	798	76
15°	764	215
25°	703	324
35°	616	384
45°	495	380
55°	337	299
65°	167	167
75°	41	47
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	799.4
2.5°	796.7
5°	798.1
7.5°	791.3
10°	783.1
12.5°	773.6
15°	764.1
17.5°	751.9
20°	735.6
22.5°	719.3
25°	703.1
27.5°	685.4
30°	662.3
32.5°	639.3
35°	616.2
37.5°	589.0
40°	557.8
42.5°	528.0
45°	495.4
47.5°	458.7
50°	420.7
52.5°	377.3
55°	336.6
57.5°	290.4
60°	247.0
62.5°	207.7
65°	166.9
67.5°	131.7
70°	97.7
72.5°	66.5
75°	40.7
77.5°	20.4
80°	5.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)