

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: P211701

Luminaire Tested: **LSR4B20D010BZ EC4B10208040 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211701
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 EC4B10208040 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: 2049.5 lumens
Efficiency: N/A
Efficacy: 98.5 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

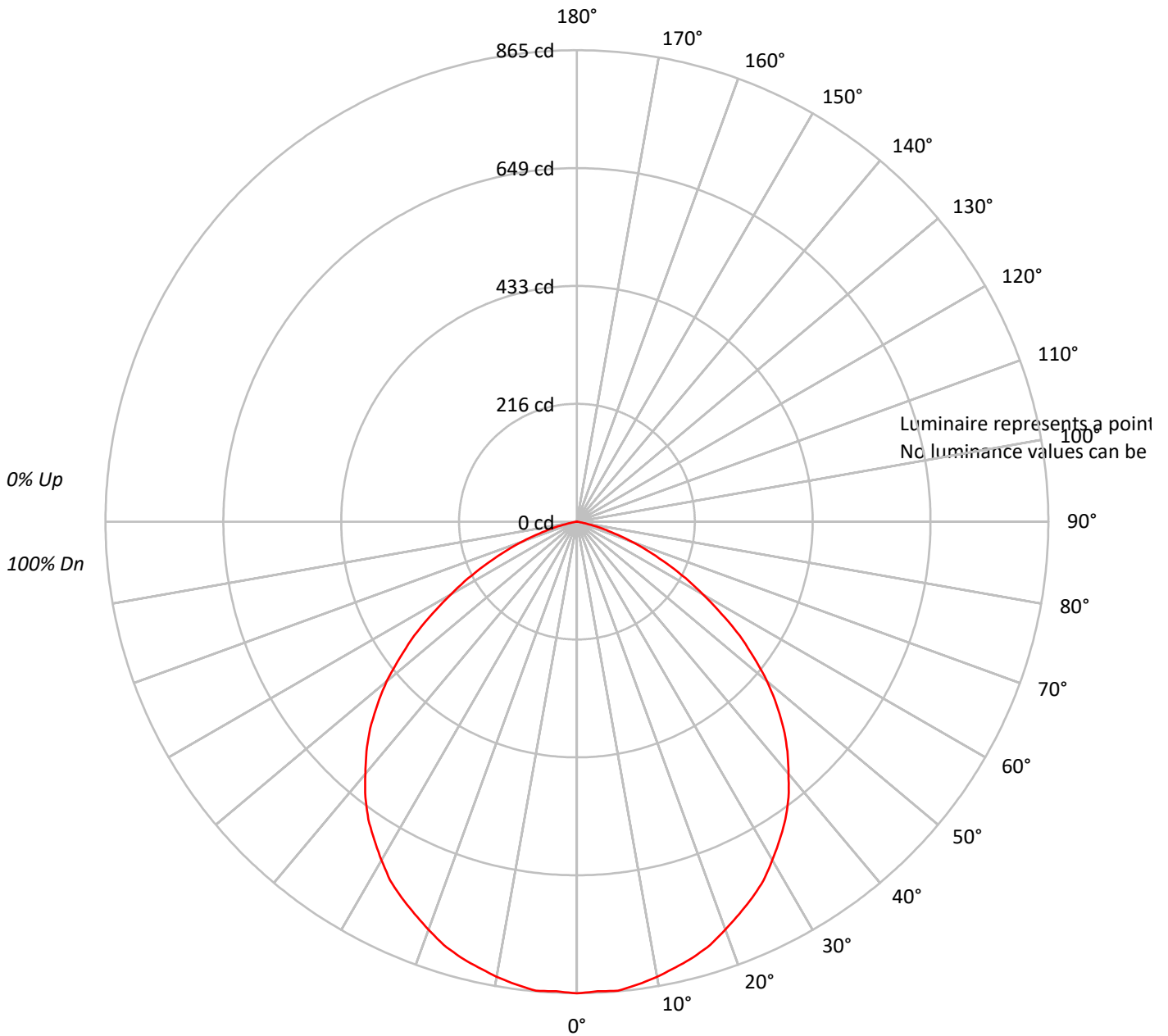
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	81.9	4.0
10°-20°	233.2	11.4
20°-30°	350.6	17.1
30°-40°	416.0	20.3
40°-50°	411.6	20.1
50°-60°	323.3	15.8
60°-70°	181.3	8.8
70°-80°	50.9	2.5
80°-90°	0.8	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°	665.6	32.5
0°-40°	1081.6	52.8
0°-60°	1816.6	88.6
0°-90°	2049.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	865	
5°	864	82
15°	827	233
25°	761	351
35°	667	416
45°	536	412
55°	364	323
65°	181	181
75°	44	51
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	865.4
2.5°	862.5
5°	864.0
7.5°	856.6
10°	847.8
12.5°	837.5
15°	827.2
17.5°	814.0
20°	796.4
22.5°	778.7
25°	761.1
27.5°	742.0
30°	717.0
32.5°	692.1
35°	667.1
37.5°	637.7
40°	603.9
42.5°	571.6
45°	536.3
47.5°	496.6
50°	455.5
52.5°	408.5
55°	364.4
57.5°	314.4
60°	267.4
62.5°	224.8
65°	180.7
67.5°	142.5
70°	105.8
72.5°	72.0
75°	44.1
77.5°	22.0
80°	5.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)