

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: P211440

Luminaire Tested: **LSR4B20D010BZ EC4B10209024 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211440
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 EC4B10209024 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: 1429.6 lumens
Efficiency: N/A
Efficacy: 68.7 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

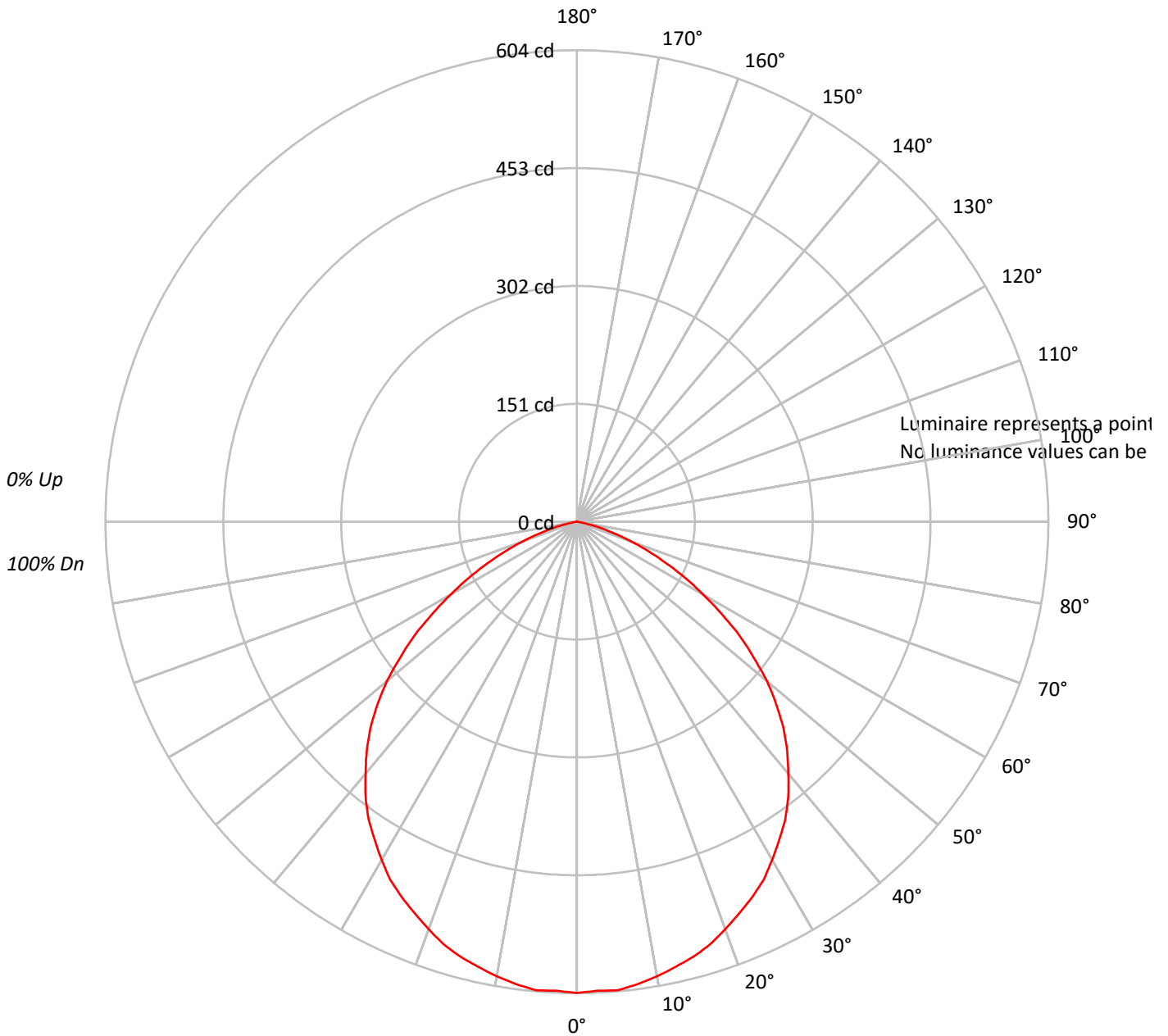
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211440

CATALOG NUMBER: LSR4B20D010BZ EC4B10209024 4LBCSMB1

Luminous Intensity Polar Plot





TEST NUMBER: P211440

CATALOG NUMBER: LSR4B20D010BZ EC4B10209024 4LBCSMB1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88	88	88	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75	75	75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49	49	49	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39	39	39	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211440

CATALOG NUMBER: LSR4B20D010BZ EC4B10209024 4LBCSMB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	4.0
10°-20°	162.7	11.4
20°-30°	244.5	17.1
30°-40°	290.1	20.3
40°-50°	287.1	20.1
50°-60°	225.5	15.8
60°-70°	126.4	8.8
70°-80°	35.5	2.5
80°-90°	0.6	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°	464.3	32.5
0°-40°	754.4	52.8
0°-60°	1267.1	88.6
0°-90°	1429.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	604	
5°	603	57
15°	577	163
25°	531	245
35°	465	290
45°	374	287
55°	254	226
65°	126	126
75°	31	35
85°	0	1
90°	0	



TEST NUMBER: P211440

CATALOG NUMBER: LSR4B20D010BZ EC4B10209024 4LBCSMB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	603.7
2.5°	601.6
5°	602.6
7.5°	597.5
10°	591.4
12.5°	584.2
15°	577.0
17.5°	567.8
20°	555.5
22.5°	543.2
25°	530.9
27.5°	517.6
30°	500.2
32.5°	482.7
35°	465.3
37.5°	444.8
40°	421.2
42.5°	398.7
45°	374.1
47.5°	346.4
50°	317.7
52.5°	284.9
55°	254.2
57.5°	219.3
60°	186.5
62.5°	156.8
65°	126.1
67.5°	99.4
70°	73.8
72.5°	50.2
75°	30.7
77.5°	15.4
80°	4.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)