

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: P211643

Luminaire Tested: **LSR4B20D010BZ EC4B10208035 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211643
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 EC4B10208035 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: 2027.8 lumens
Efficiency: N/A
Efficacy: 97.5 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

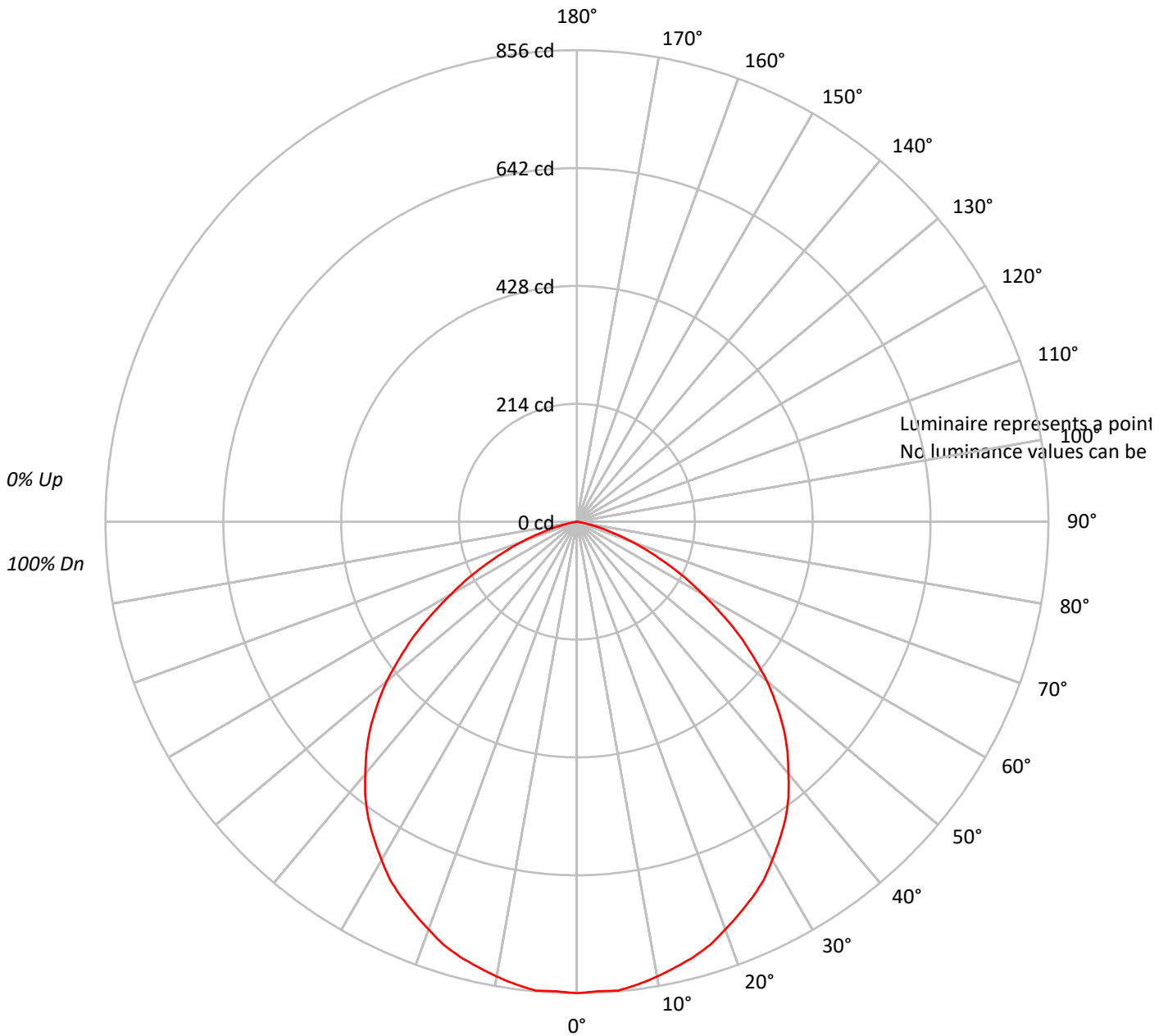
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211643

CATALOG NUMBER: LSR4B20D010BZ EC4B10208035 4LBCSMB1

Luminous Intensity Polar Plot





TEST NUMBER: P211643

CATALOG NUMBER: LSR4B20D010BZ EC4B10208035 4LBCSMB1

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211643

CATALOG NUMBER: LSR4B20D010BZ EC4B10208035 4LBCSMB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	4.0
10°-20°	230.7	11.4
20°-30°	346.8	17.1
30°-40°	411.5	20.3
40°-50°	407.3	20.1
50°-60°	319.9	15.8
60°-70°	179.4	8.8
70°-80°	50.4	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°	658.6	32.5
0°-40°	1070.1	52.8
0°-60°	1797.3	88.6
0°-90°	2027.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	856	
5°	855	81
15°	818	231
25°	753	347
35°	660	412
45°	531	407
55°	360	320
65°	179	179
75°	44	50
85°	0	1
90°	0	



TEST NUMBER: P211643

CATALOG NUMBER: LSR4B20D010BZ EC4B10208035 4LBCSMB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	856.2
2.5°	853.3
5°	854.8
7.5°	847.5
10°	838.8
12.5°	828.6
15°	818.4
17.5°	805.4
20°	787.9
22.5°	770.5
25°	753.0
27.5°	734.1
30°	709.4
32.5°	684.7
35°	660.0
37.5°	630.9
40°	597.5
42.5°	565.5
45°	530.6
47.5°	491.4
50°	450.7
52.5°	404.1
55°	360.5
57.5°	311.1
60°	264.6
62.5°	222.4
65°	178.8
67.5°	141.0
70°	104.7
72.5°	71.2
75°	43.6
77.5°	21.8
80°	5.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)