

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: P211535

Luminaire Tested: **LSR4B20D010BZ EC4B10209727 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211535
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 EC4B10209727 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH WHEAT 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: 1110.6 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

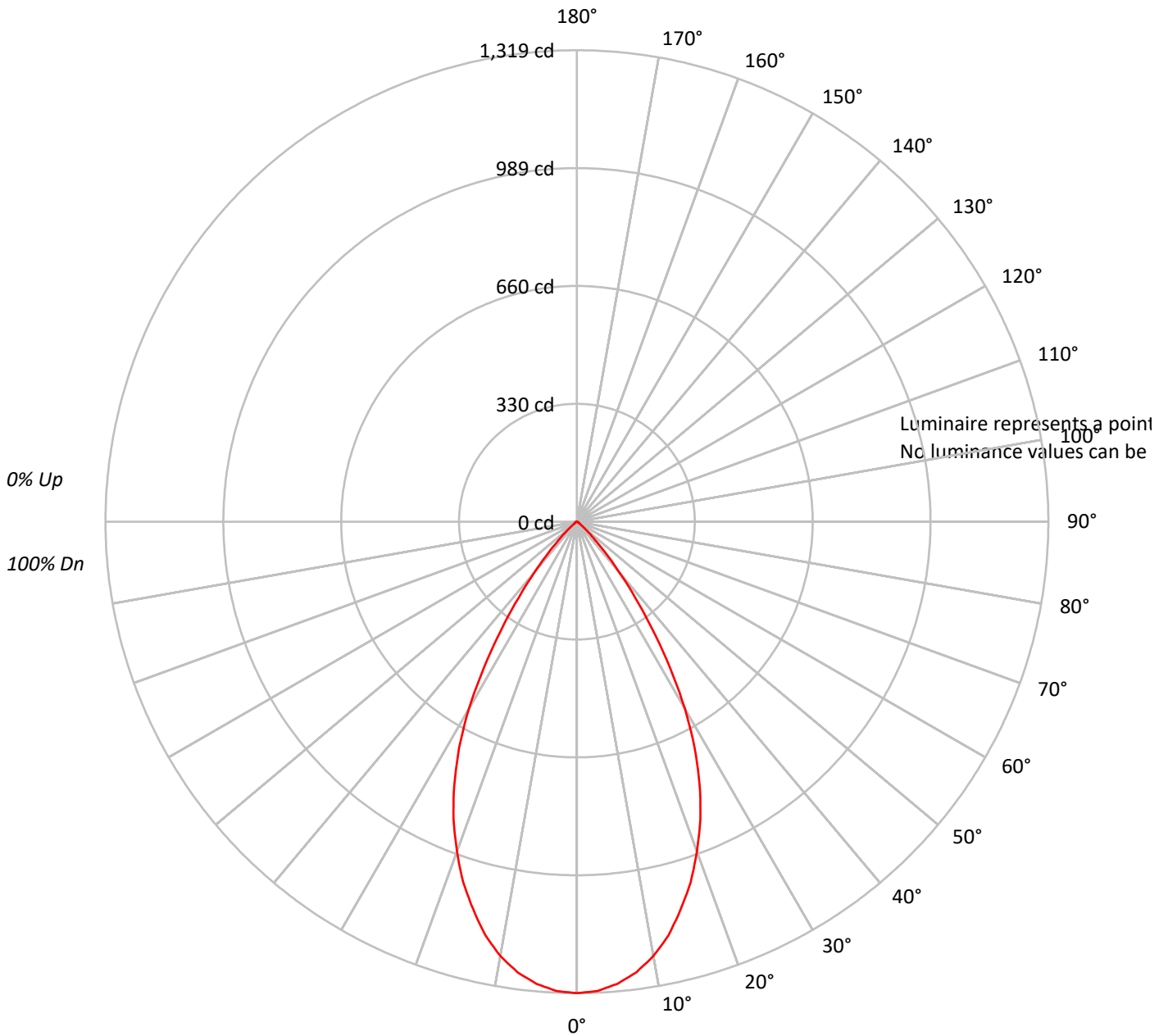
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211535

CATALOG NUMBER: LSR4B20D010BZ EC4B10209727 4LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P211535

CATALOG NUMBER: LSR4B20D010BZ EC4B10209727 4LBMWH1

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	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211535

CATALOG NUMBER: LSR4B20D010BZ EC4B10209727 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	11.0
10°-20°	313.3	28.2
20°-30°	367.6	33.1
30°-40°	232.6	20.9
40°-50°	62.3	5.6
50°-60°	8.7	0.8
60°-70°	3.2	0.3
70°-80°	1.0	0.1
80°-90°	0.0	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°	802.7	72.3
0°-40°	1035.4	93.2
0°-60°	1106.4	99.6
0°-90°	1110.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1110.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1319	
5°	1298	122
15°	1122	313
25°	812	368
35°	369	233
45°	70	62
55°	8	9
65°	3	3
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P211535

CATALOG NUMBER: LSR4B20D010BZ EC4B10209727 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1319.1
2.5°	1314.2
5°	1297.8
7.5°	1271.5
10°	1233.8
12.5°	1184.6
15°	1122.2
17.5°	1058.2
20°	981.1
22.5°	902.4
25°	812.1
27.5°	713.7
30°	603.8
32.5°	484.0
35°	369.1
37.5°	267.4
40°	183.8
42.5°	118.1
45°	70.5
47.5°	39.4
50°	21.3
52.5°	11.5
55°	8.2
57.5°	6.6
60°	4.9
62.5°	4.9
65°	3.3
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)