

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: P210980

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210980
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: LSR4B10D010BZ EC4B10209040 4LBMGPH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 502.9 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

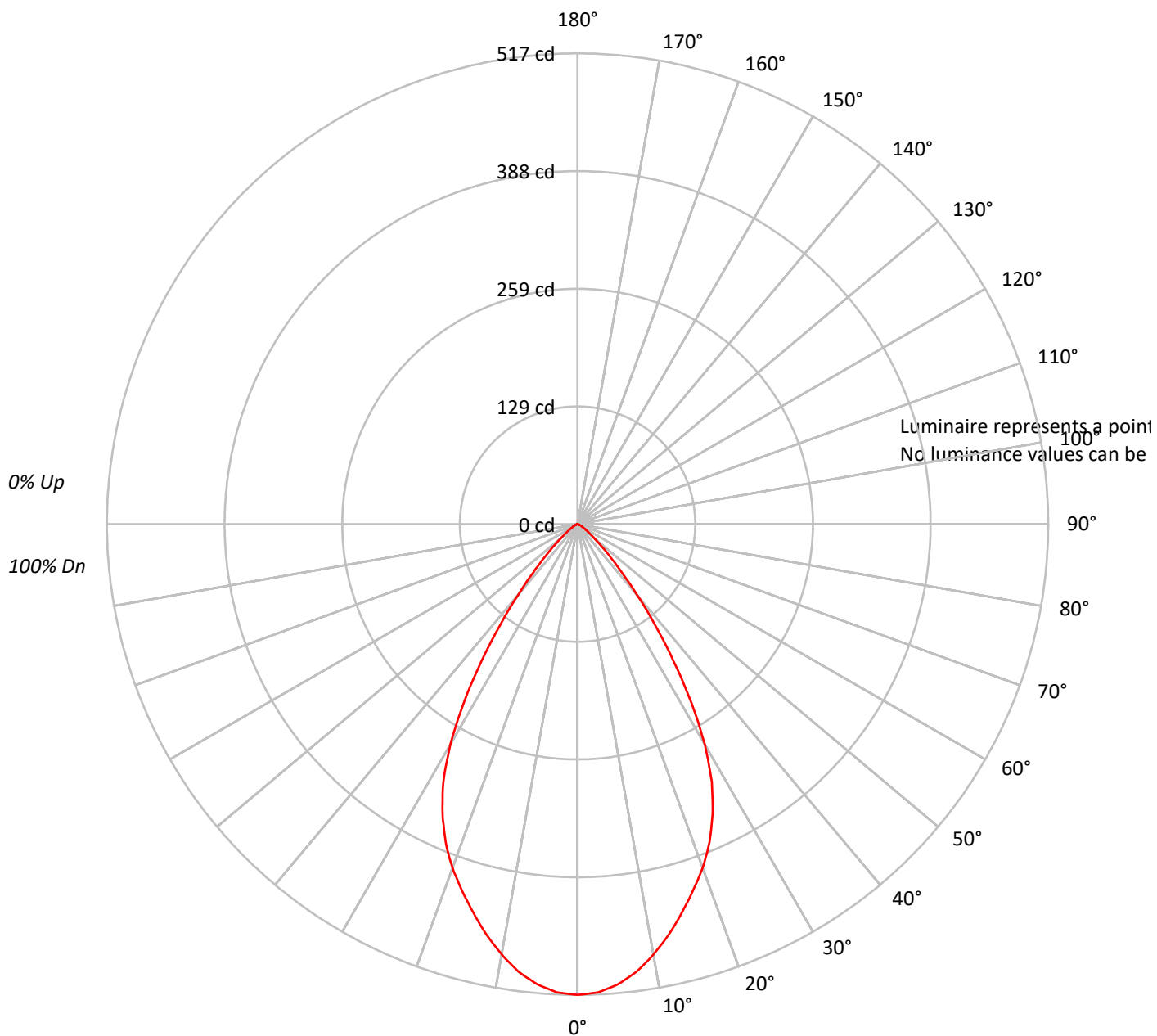
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210980

CATALOG NUMBER: LSR4B10D010BZ EC4B10209040 4LBMGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P210980

CATALOG NUMBER: LSR4B10D010BZ EC4B10209040 4LBMGPH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	101		100	99	98		97	96	95
2	107	102	98	94		105	100	97	93		97	94	91		94	92	89		91	89	88
3	102	95	90	85		100	93	89	85		91	87	83		88	85	82		86	83	81
4	96	88	82	78		94	87	82	78		85	80	77		83	79	76		81	78	75
5	91	82	76	72		89	81	76	71		79	74	71		78	73	70		76	72	69
6	86	77	71	66		85	76	70	66		74	69	65		73	68	65		72	68	64
7	82	72	66	61		80	71	65	61		70	65	61		69	64	60		68	63	60
8	77	67	61	57		76	67	61	57		66	60	57		65	60	56		64	59	56
9	73	63	57	53		72	63	57	53		62	57	53		61	56	53		60	56	52
10	70	60	54	50		69	59	54	50		59	53	50		58	53	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210980

CATALOG NUMBER: LSR4B10D010BZ EC4B10209040 4LBMGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	9.5
10°-20°	124.1	24.7
20°-30°	159.1	31.6
30°-40°	115.0	22.9
40°-50°	41.2	8.2
50°-60°	11.1	2.2
60°-70°	3.6	0.7
70°-80°	1.1	0.2
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°	330.8	65.8
0°-40°	445.8	88.6
0°-60°	498.2	99.0
0°-90°	502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	517	
5°	508	48
15°	442	124
25°	351	159
35°	184	115
45°	50	41
55°	12	11
65°	3	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P210980

CATALOG NUMBER: LSR4B10D010BZ EC4B10209040 4LBMGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	517.0
2.5°	514.9
5°	507.5
7.5°	495.9
10°	480.0
12.5°	462.0
15°	442.0
17.5°	421.9
20°	401.8
22.5°	378.5
25°	351.0
27.5°	319.3
30°	279.1
32.5°	232.6
35°	184.0
37.5°	139.6
40°	101.5
42.5°	71.9
45°	49.7
47.5°	33.8
50°	22.2
52.5°	15.9
55°	11.6
57.5°	8.5
60°	6.3
62.5°	5.3
65°	3.2
67.5°	2.1
70°	2.1
72.5°	1.1
75°	1.1
77.5°	1.1
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)