

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: P211521

Luminaire Tested: **LSR4B20D010BZ EC4B10209027 4LBWB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211521
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 EC4B10209027 4LBWB1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR BLACK 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: 812.9 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

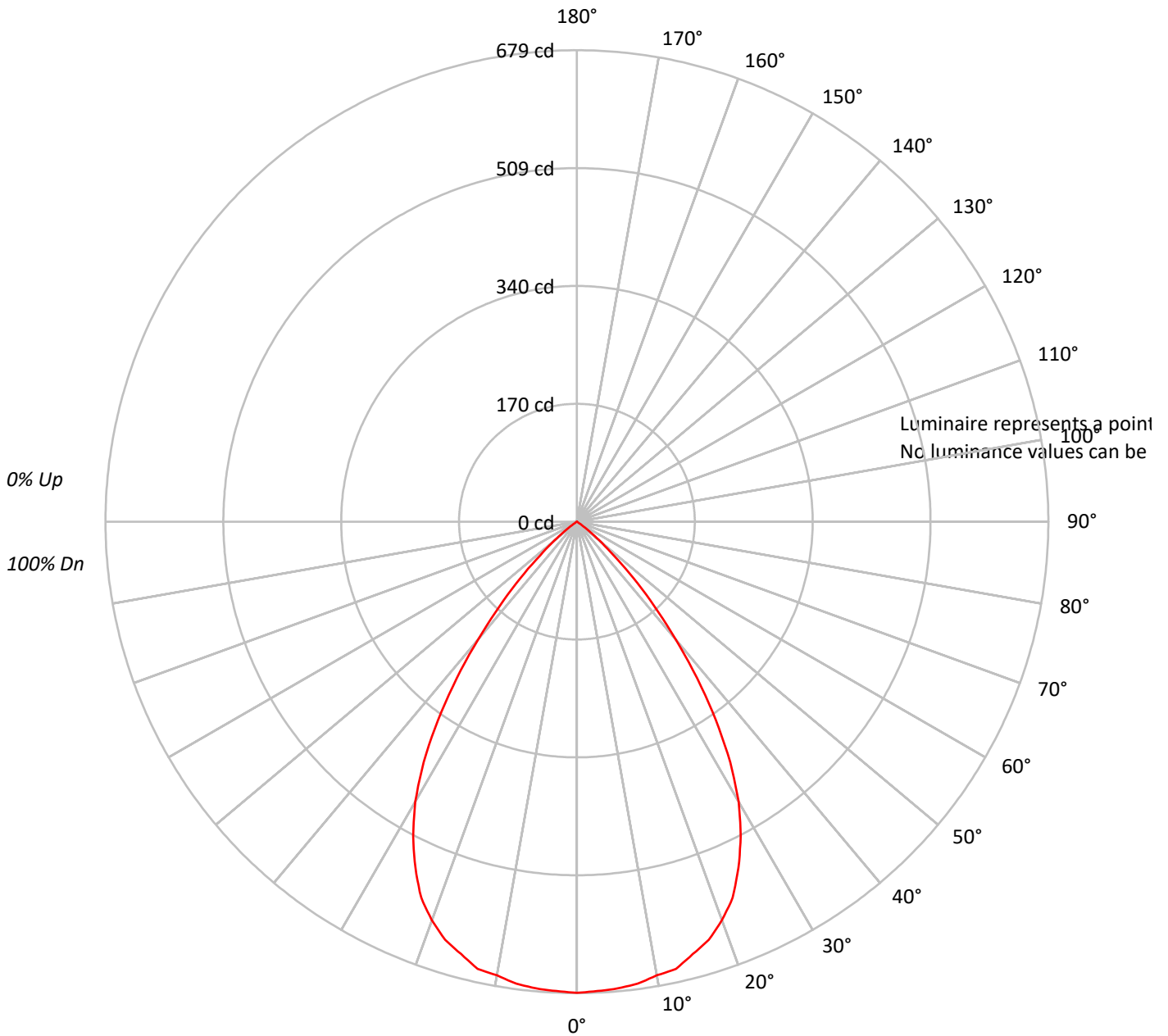
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72		
5	90	81	75	70	89	80	74	70	79	73	69	77	72	69	75	71	68	67		
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62		
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57		
8	76	66	60	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49		
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	7.9
10°-20°	181.6	22.3
20°-30°	250.9	30.9
30°-40°	214.8	26.4
40°-50°	91.3	11.2
50°-60°	10.2	1.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	496.5	61.1
0°-40°	711.4	87.5
0°-60°	812.9	100.0
0°-90°	812.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	812.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	679	
5°	675	64
15°	645	182
25°	550	251
35°	349	215
45°	115	91
55°	6	10
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	678.6
2.5°	676.7
5°	674.8
7.5°	671.1
10°	663.5
12.5°	659.7
15°	644.7
17.5°	631.5
20°	610.7
22.5°	586.2
25°	550.4
27.5°	510.8
30°	465.6
32.5°	410.9
35°	348.7
37.5°	284.6
40°	220.5
42.5°	164.0
45°	115.0
47.5°	71.6
50°	41.5
52.5°	20.7
55°	5.7
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)