

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: P211648

Luminaire Tested: **LSR4B20D010BZ EC4B10208035 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211648
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 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1560.7 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

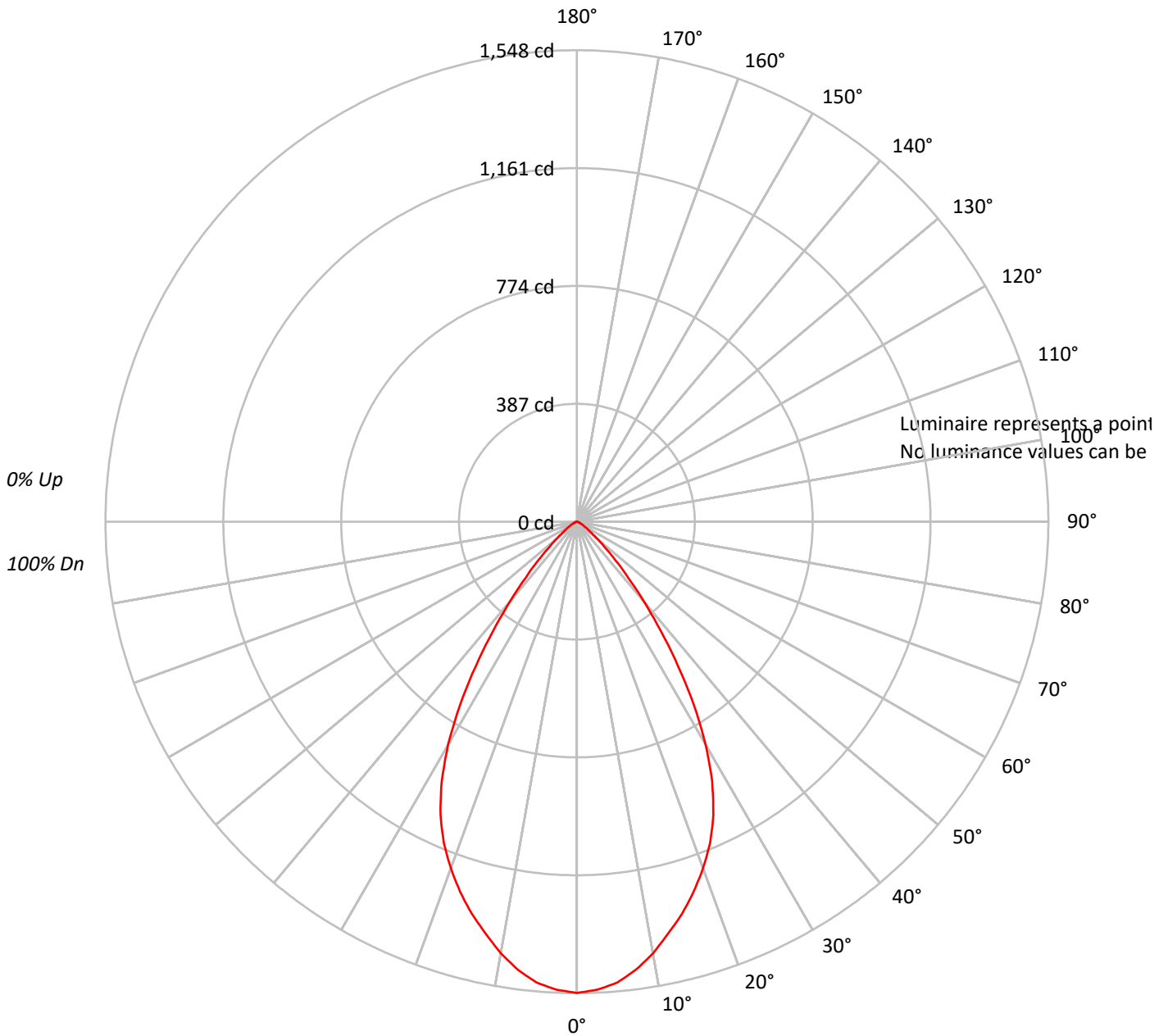
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	85																																				
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	80	76	82	78	75	80	77	74	73																																				
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67																																				
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																																				
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																																				
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																																				
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																																				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	9.1
10°-20°	373.6	23.9
20°-30°	480.1	30.8
30°-40°	361.2	23.1
40°-50°	145.1	9.3
50°-60°	41.2	2.6
60°-70°	13.1	0.8
70°-80°	3.8	0.2
80°-90°	0.3	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°	996.0	63.8
0°-40°	1357.2	87.0
0°-60°	1543.5	98.9
0°-90°	1560.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1548	
5°	1519	142
15°	1333	374
25°	1060	480
35°	579	361
45°	179	145
55°	42	41
65°	12	13
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1547.5
2.5°	1538.1
5°	1519.2
7.5°	1483.9
10°	1439.1
12.5°	1385.0
15°	1333.1
17.5°	1274.3
20°	1210.7
22.5°	1142.4
25°	1059.9
27.5°	961.0
30°	845.6
32.5°	716.0
35°	579.4
37.5°	452.2
40°	339.2
42.5°	249.7
45°	179.0
47.5°	122.5
50°	84.8
52.5°	58.9
55°	42.4
57.5°	30.6
60°	23.6
62.5°	16.5
65°	11.8
67.5°	9.4
70°	7.1
72.5°	4.7
75°	2.4
77.5°	2.4
80°	2.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)