

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: P211616

Luminaire Tested: **LSR4B20D010BZ EC4B10209730 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211616
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 EC4B10209730 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1577.4 lumens
Efficiency: N/A
Efficacy: 75.8 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

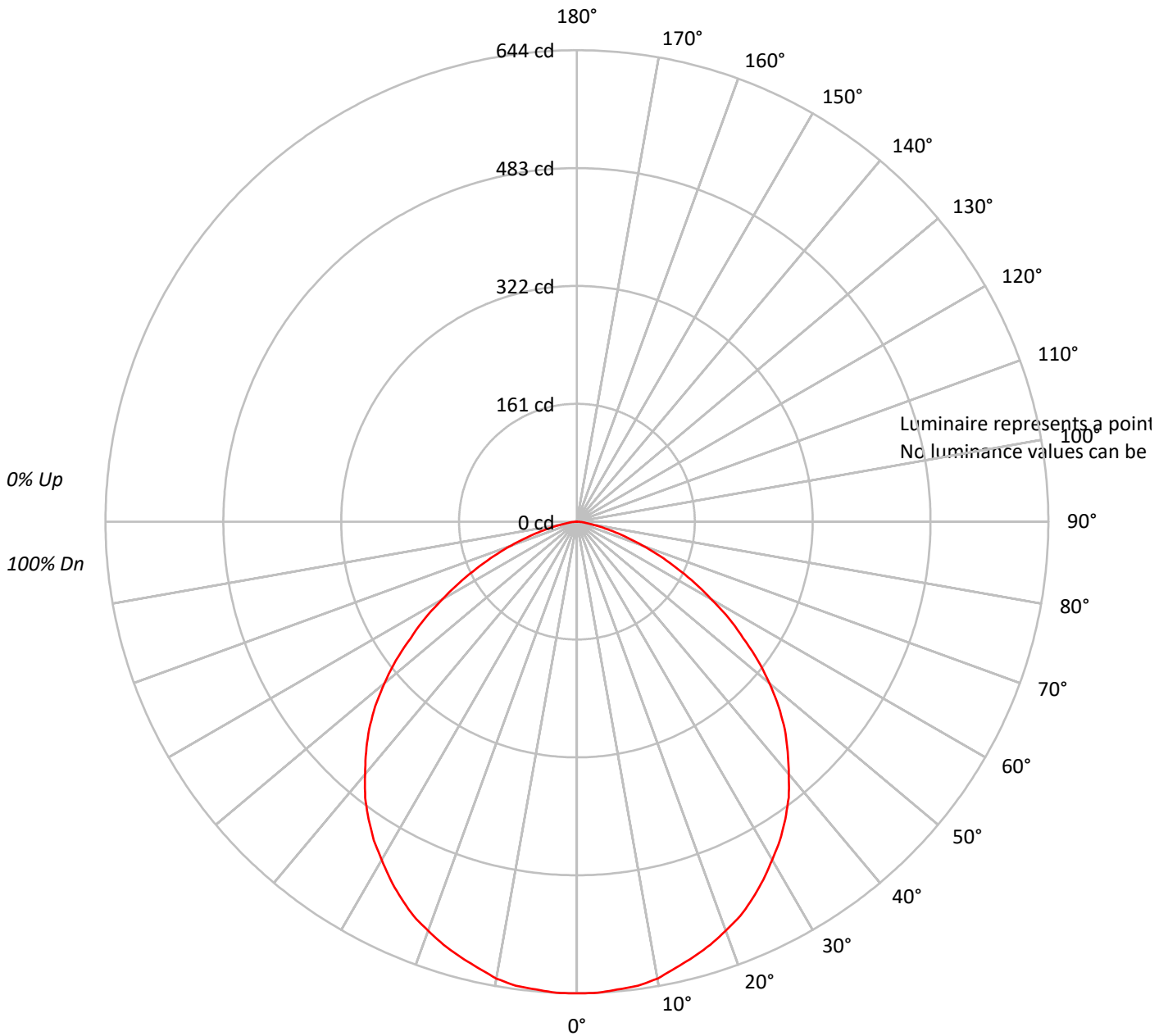
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																																				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																																				
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63																																				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55																																				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48																																				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42																																				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37																																				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33																																				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																																				
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.9
10°-20°	173.8	11.0
20°-30°	261.4	16.6
30°-40°	309.8	19.6
40°-50°	308.3	19.5
50°-60°	248.5	15.8
60°-70°	150.4	9.5
70°-80°	55.8	3.5
80°-90°	8.3	0.5
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°	496.2	31.5
0°-40°	806.1	51.1
0°-60°	1362.9	86.4
0°-90°	1577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	644	
5°	641	61
15°	616	174
25°	568	261
35°	496	310
45°	402	308
55°	277	249
65°	151	150
75°	51	56
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	644.3
2.5°	644.3
5°	641.4
7.5°	639.5
10°	633.7
12.5°	624.2
15°	615.6
17.5°	606.0
20°	594.5
22.5°	583.1
25°	567.8
27.5°	551.5
30°	533.4
32.5°	516.2
35°	496.1
37.5°	475.1
40°	450.2
42.5°	426.3
45°	401.5
47.5°	373.7
50°	343.2
52.5°	311.6
55°	277.2
57.5°	246.6
60°	212.2
62.5°	181.6
65°	151.0
67.5°	122.4
70°	95.6
72.5°	71.7
75°	50.7
77.5°	32.5
80°	19.1
82.5°	11.5
85°	6.7
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)