

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: P211704

Luminaire Tested: **LSR4B20D010BZ EC4B10208040 4LBMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211704
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 EC4B10208040 4LBMB1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 863.6 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

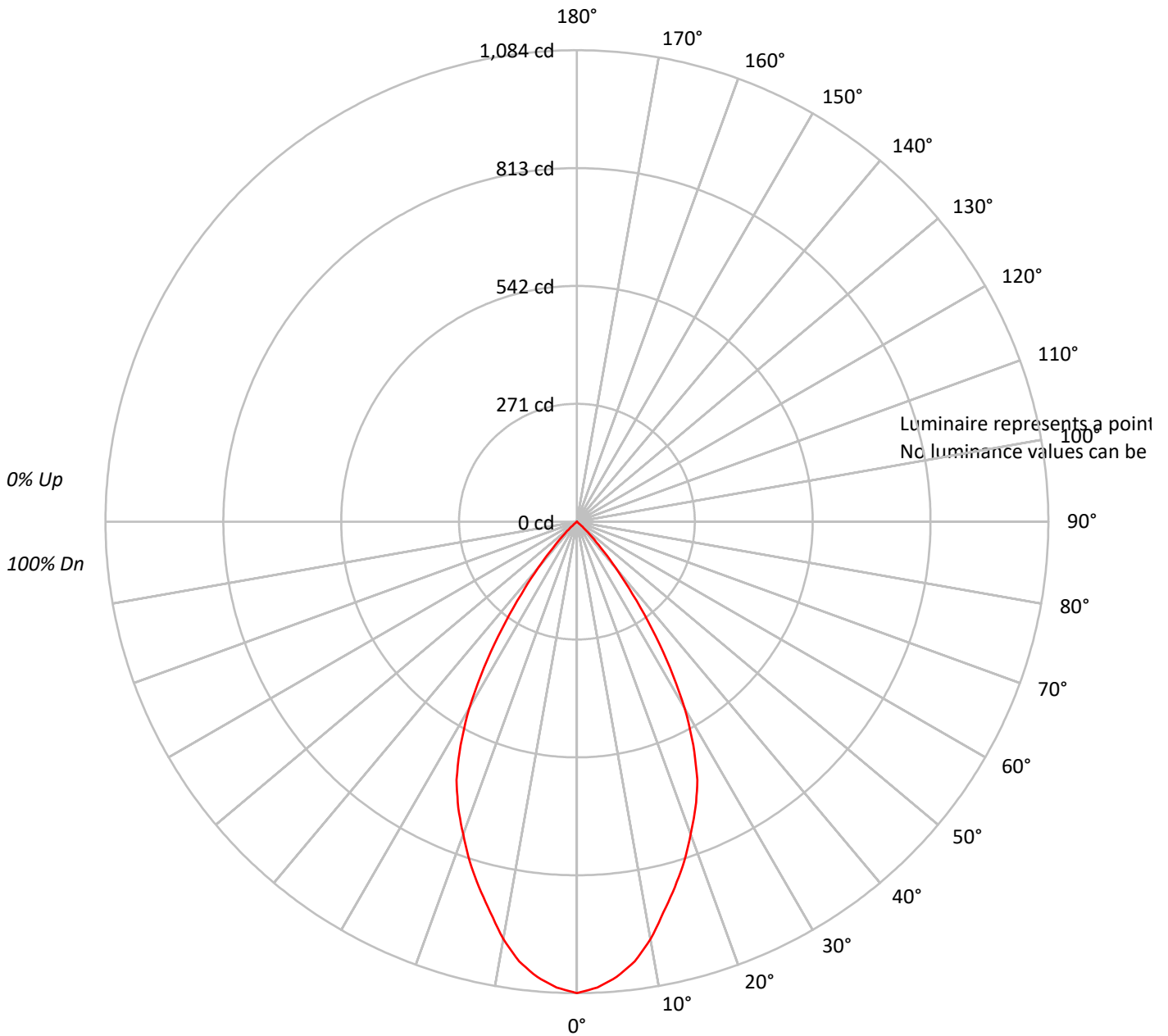
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																																			
	2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																																			
	3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82																																			
	4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77																																			
	5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72																																			
	6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																																			
	7	84	75	70	65	83	75	69	65	73	68	65	72	68	65	71	67	64	63																																			
	8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59																																			
	9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																																			
	10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	11.3
10°-20°	243.5	28.2
20°-30°	294.5	34.1
30°-40°	187.9	21.8
40°-50°	39.2	4.5
50°-60°	0.5	0.1
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°	636.1	73.6
0°-40°	823.9	95.4
0°-60°	863.6	100.0
0°-90°	863.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1084	
5°	1051	98
15°	870	244
25°	655	295
35°	300	188
45°	40	39
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1084.1
2.5°	1072.2
5°	1050.7
7.5°	1019.8
10°	974.5
12.5°	919.7
15°	869.7
17.5°	819.6
20°	764.8
22.5°	712.4
25°	655.2
27.5°	579.0
30°	495.6
32.5°	397.9
35°	300.2
37.5°	209.7
40°	138.2
42.5°	81.0
45°	40.5
47.5°	16.7
50°	4.8
52.5°	0.0
55°	0.0
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)