

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: P211475

Luminaire Tested: **LSR4B20D010BZ EC4B10208027 4LBMLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211475
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 EC4B10208027 4LBML1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH 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: 1817.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

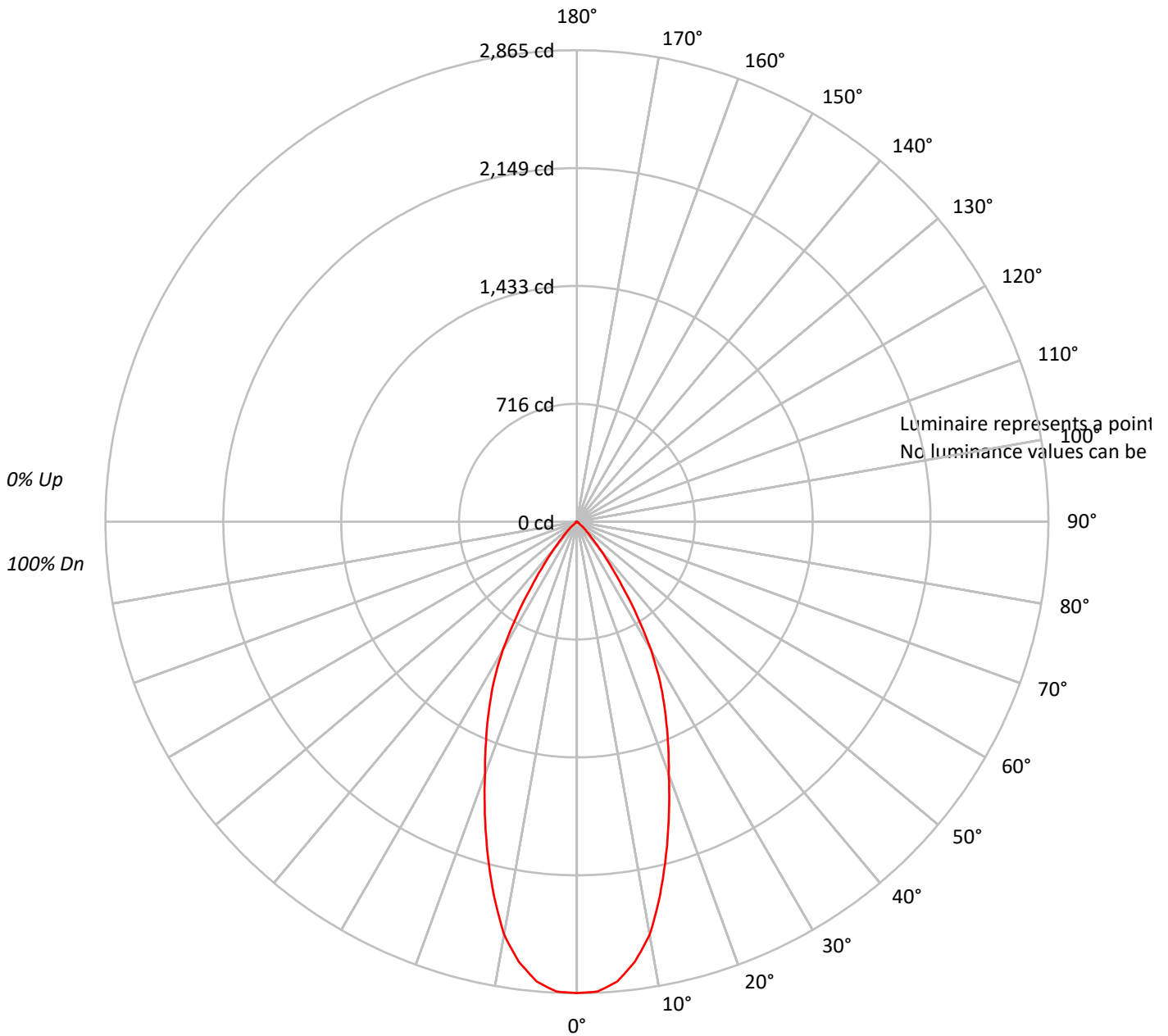
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	14.3
10°-20°	580.0	31.9
20°-30°	576.6	31.7
30°-40°	314.0	17.3
40°-50°	72.6	4.0
50°-60°	10.2	0.6
60°-70°	3.8	0.2
70°-80°	0.9	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°	1416.0	77.9
0°-40°	1730.1	95.2
0°-60°	1812.9	99.7
0°-90°	1817.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2865	
5°	2806	259
15°	2093	580
25°	1264	577
35°	486	314
45°	84	73
55°	11	10
65°	4	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2865.2
2.5°	2858.6
5°	2805.8
7.5°	2698.1
10°	2548.6
12.5°	2328.7
15°	2093.4
17.5°	1860.3
20°	1631.6
22.5°	1444.7
25°	1264.4
27.5°	1092.9
30°	899.4
32.5°	683.9
35°	486.0
37.5°	327.6
40°	213.3
42.5°	134.1
45°	83.6
47.5°	48.4
50°	24.2
52.5°	13.2
55°	11.0
57.5°	6.6
60°	6.6
62.5°	4.4
65°	4.4
67.5°	2.2
70°	2.2
72.5°	2.2
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)