

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: P212403

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212403
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: LSR4B40D010BZ EC4B30508035 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.9 lumens
Efficiency: N/A
Efficacy: 75.4 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

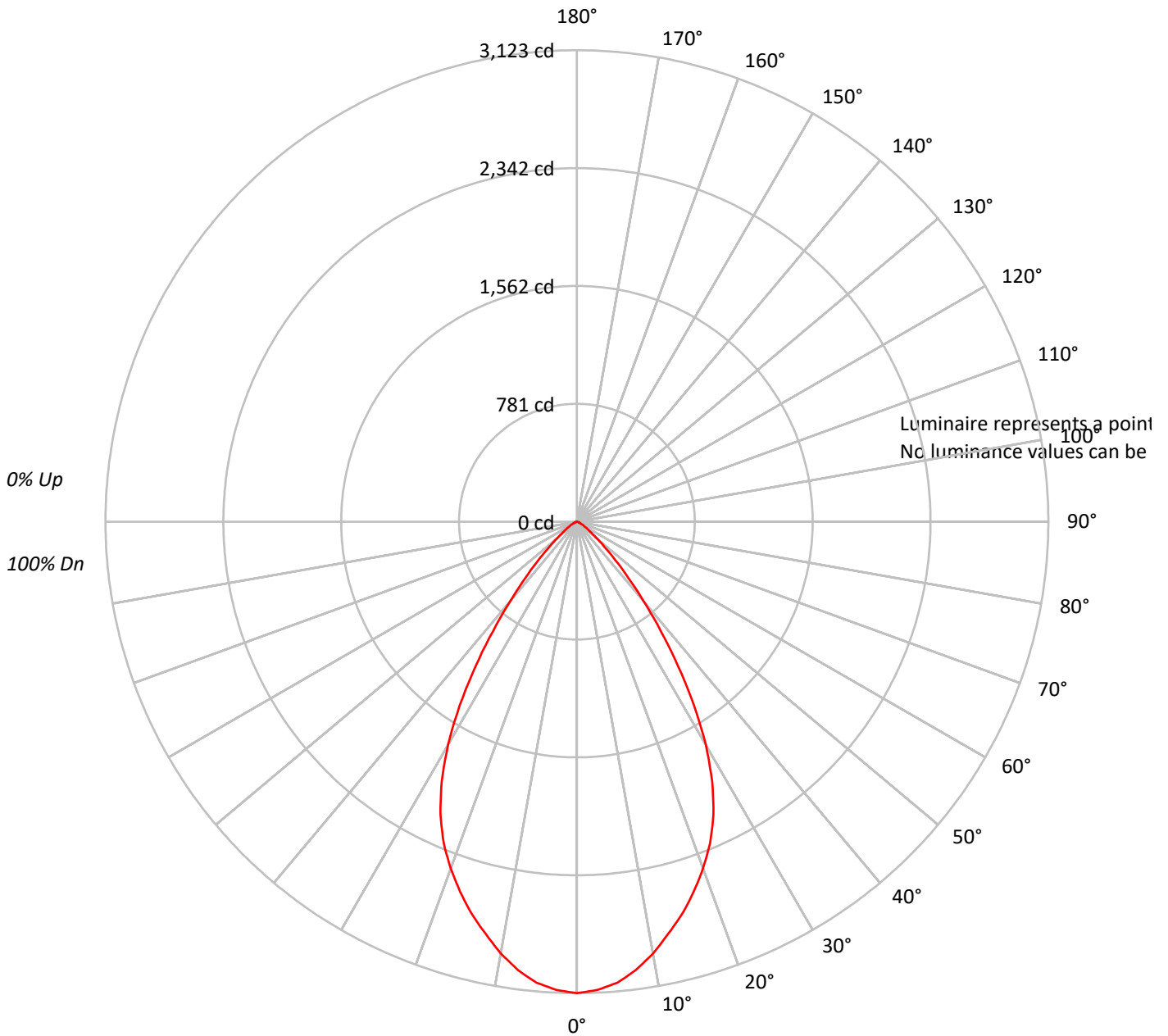
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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°	287.4	9.1
10°-20°	754.0	23.9
20°-30°	969.0	30.8
30°-40°	729.0	23.1
40°-50°	292.8	9.3
50°-60°	83.2	2.6
60°-70°	26.4	0.8
70°-80°	7.5	0.2
80°-90°	0.7	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°	2010.4	63.8
0°-40°	2739.4	87.0
0°-60°	3115.4	98.9
0°-90°	3149.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3123	
5°	3066	287
15°	2691	754
25°	2139	969
35°	1170	729
45°	361	293
55°	86	83
65°	24	26
75°	5	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3123.4
2.5°	3104.4
5°	3066.4
7.5°	2995.0
10°	2904.7
12.5°	2795.4
15°	2690.8
17.5°	2571.9
20°	2443.6
22.5°	2305.7
25°	2139.3
27.5°	1939.6
30°	1706.7
32.5°	1445.2
35°	1169.5
37.5°	912.8
40°	684.6
42.5°	503.9
45°	361.3
47.5°	247.2
50°	171.1
52.5°	118.9
55°	85.6
57.5°	61.8
60°	47.5
62.5°	33.3
65°	23.8
67.5°	19.0
70°	14.3
72.5°	9.5
75°	4.8
77.5°	4.8
80°	4.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)