

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: P212351

Luminaire Tested: **LSR4B40D010BZ EC4B30509030 4LBNI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212351
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 EC4B30509030 4LBNI1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH 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: 2569.7 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

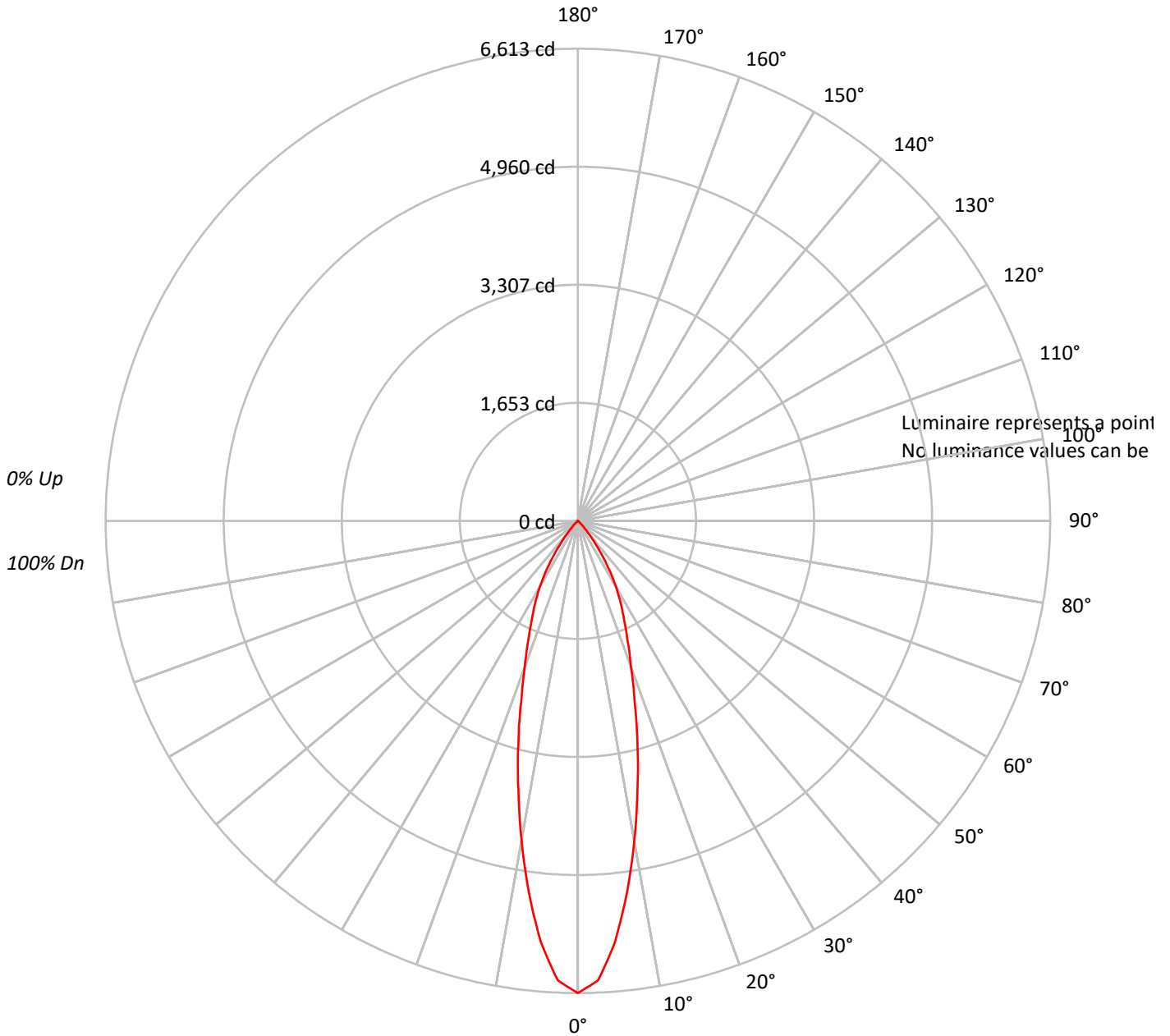
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95	
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90			90	
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85	
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81	
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77			77	
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			73	
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69			69	
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66	
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63			63	
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			61	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.1	20.3
10°-20°	892.2	34.7
20°-30°	709.1	27.6
30°-40°	375.3	14.6
40°-50°	64.7	2.5
50°-60°	4.9	0.2
60°-70°	2.4	0.1
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°	2122.4	82.6
0°-40°	2497.7	97.2
0°-60°	2567.2	99.9
0°-90°	2569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2569.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6613	
5°	5928	521
15°	3225	892
25°	1528	709
35°	594	375
45°	67	65
55°	4	5
65°	4	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6612.9
2.5°	6442.7
5°	5928.2
7.5°	5255.5
10°	4543.1
12.5°	3854.5
15°	3225.3
17.5°	2639.6
20°	2172.6
22.5°	1816.5
25°	1527.6
27.5°	1294.1
30°	1060.6
32.5°	823.1
35°	593.6
37.5°	391.8
40°	233.5
42.5°	134.6
45°	67.3
47.5°	23.7
50°	7.9
52.5°	7.9
55°	4.0
57.5°	4.0
60°	4.0
62.5°	4.0
65°	4.0
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)