

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: P212381

Luminaire Tested: **LSR4B40D010BZ EC4B30509730 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212381
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 EC4B30509730 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE 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: 2176.9 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

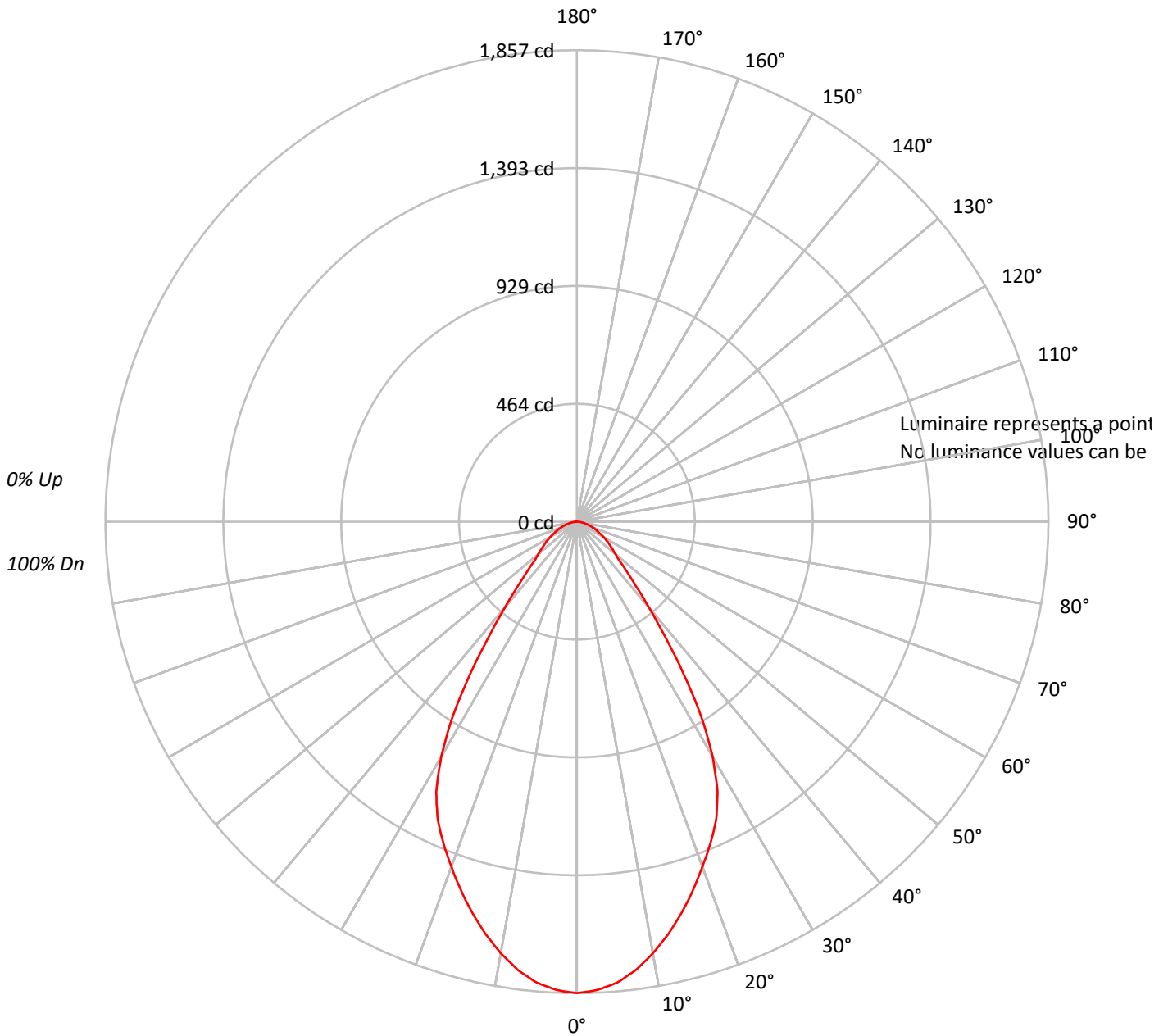
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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																			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48																			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	7.8
10°-20°	447.0	20.5
20°-30°	588.3	27.0
30°-40°	458.0	21.0
40°-50°	222.4	10.2
50°-60°	140.5	6.5
60°-70°	90.6	4.2
70°-80°	47.4	2.2
80°-90°	11.8	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°	1206.2	55.4
0°-40°	1664.2	76.4
0°-60°	2027.1	93.1
0°-90°	2176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1857	
5°	1822	171
15°	1594	447
25°	1297	588
35°	733	458
45°	277	222
55°	156	141
65°	90	91
75°	45	47
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1857.1
2.5°	1846.7
5°	1822.5
7.5°	1781.0
10°	1725.7
12.5°	1663.4
15°	1594.3
17.5°	1521.6
20°	1445.6
22.5°	1372.9
25°	1296.8
27.5°	1200.0
30°	1068.6
32.5°	913.0
35°	733.2
37.5°	567.2
40°	439.2
42.5°	342.4
45°	276.7
47.5°	224.8
50°	197.1
52.5°	176.4
55°	155.6
57.5°	138.3
60°	121.0
62.5°	103.7
65°	89.9
67.5°	79.5
70°	65.7
72.5°	55.3
75°	45.0
77.5°	34.6
80°	24.2
82.5°	17.3
85°	10.4
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)