

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: P212409

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212409
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 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 2617.8 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

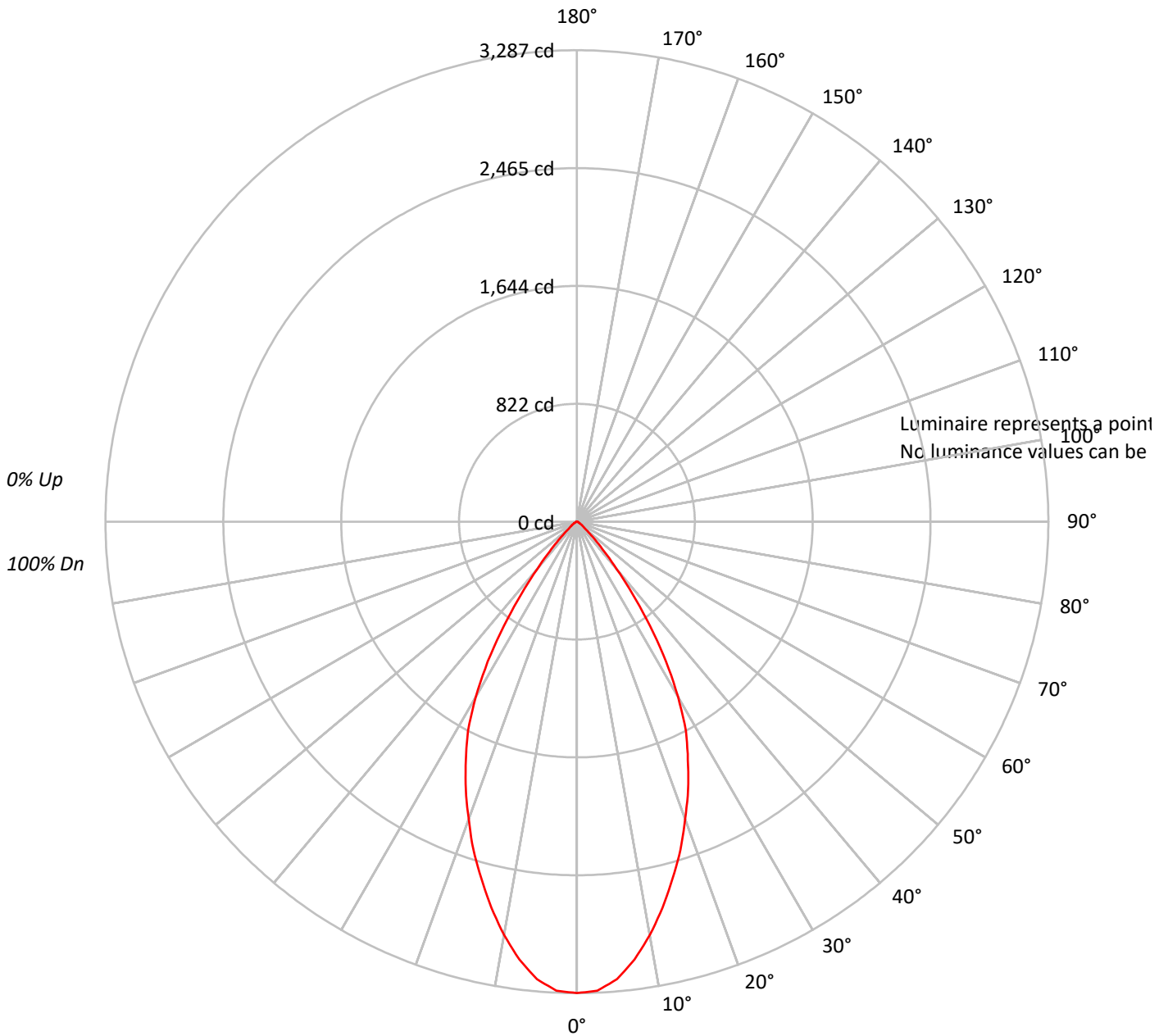
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																												
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																												
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																												
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																												
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																												
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																												
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																												
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																												
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																												
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	11.3
10°-20°	719.3	27.5
20°-30°	835.2	31.9
30°-40°	553.0	21.1
40°-50°	155.1	5.9
50°-60°	39.0	1.5
60°-70°	14.6	0.6
70°-80°	5.0	0.2
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°	1851.0	70.7
0°-40°	2404.1	91.8
0°-60°	2598.2	99.3
0°-90°	2617.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3287	
5°	3201	297
15°	2575	719
25°	1831	835
35°	887	553
45°	180	155
55°	43	39
65°	14	15
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3286.8
2.5°	3272.5
5°	3201.4
7.5°	3078.1
10°	2926.3
12.5°	2755.6
15°	2575.3
17.5°	2399.9
20°	2205.4
22.5°	2025.2
25°	1830.7
27.5°	1645.8
30°	1408.6
32.5°	1157.2
35°	886.9
37.5°	635.5
40°	431.6
42.5°	279.8
45°	180.2
47.5°	109.1
50°	71.1
52.5°	52.2
55°	42.7
57.5°	33.2
60°	23.7
62.5°	19.0
65°	14.2
67.5°	9.5
70°	9.5
72.5°	4.7
75°	4.7
77.5°	4.7
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)