

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: P211440

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211440
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: LE_4B20D010 EC4B10209024 4LBSCM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1658.3 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

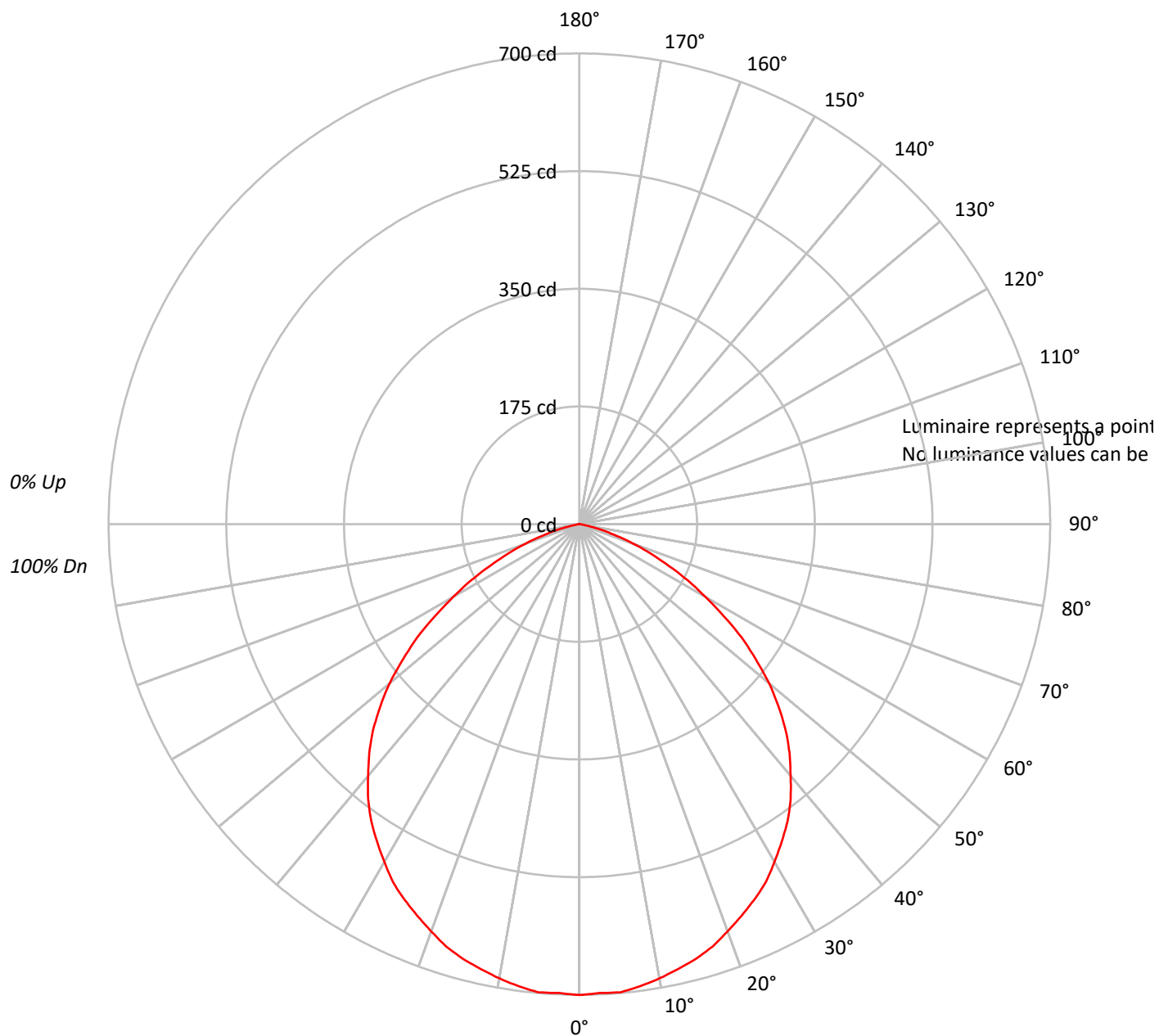
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





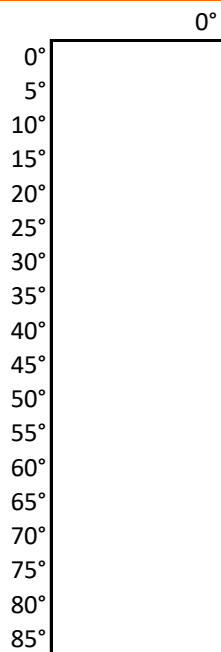
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	104	101	98		100	98	95		96	94	92		93	91	90
2	102	95	89	84		99	93	87	83		89	85	81		86	82	79		83	80	77
3	93	84	77	71		91	83	76	70		80	74	69		77	72	68		74	70	67
4	86	75	67	61		84	74	66	61		71	65	60		69	63	59		67	62	58
5	79	67	59	53		77	66	59	53		64	57	52		62	56	52		61	55	51
6	74	61	53	47		72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	55	47	41		67	55	47	41		53	46	41		52	45	41		50	45	40
8	64	51	43	37		62	50	42	37		49	42	37		48	41	37		46	41	36
9	60	47	39	33		58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	35	30		55	43	35	30		42	35	30		41	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	4.0
10°-20°	188.7	11.4
20°-30°	283.7	17.1
30°-40°	336.6	20.3
40°-50°	333.1	20.1
50°-60°	261.6	15.8
60°-70°	146.7	8.8
70°-80°	41.2	2.5
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°	538.6	32.5
0°-40°	875.1	52.8
0°-60°	1469.8	88.6
0°-90°	1658.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	700	
5°	699	66
15°	669	189
25°	616	284
35°	540	337
45°	434	333
55°	295	262
65°	146	147
75°	36	41
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	700.3
2.5°	697.9
5°	699.0
7.5°	693.1
10°	686.0
12.5°	677.7
15°	669.3
17.5°	658.6
20°	644.4
22.5°	630.1
25°	615.8
27.5°	600.4
30°	580.2
32.5°	559.9
35°	539.7
37.5°	516.0
40°	488.6
42.5°	462.5
45°	434.0
47.5°	401.8
50°	368.5
52.5°	330.5
55°	294.9
57.5°	254.4
60°	216.3
62.5°	181.9
65°	146.3
67.5°	115.3
70°	85.6
72.5°	58.2
75°	35.6
77.5°	17.9
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)