

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: P281570

Luminaire Tested: **LDA2B208027D010 EU2B20SP158027 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208027D010 EU2B20SP158027 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

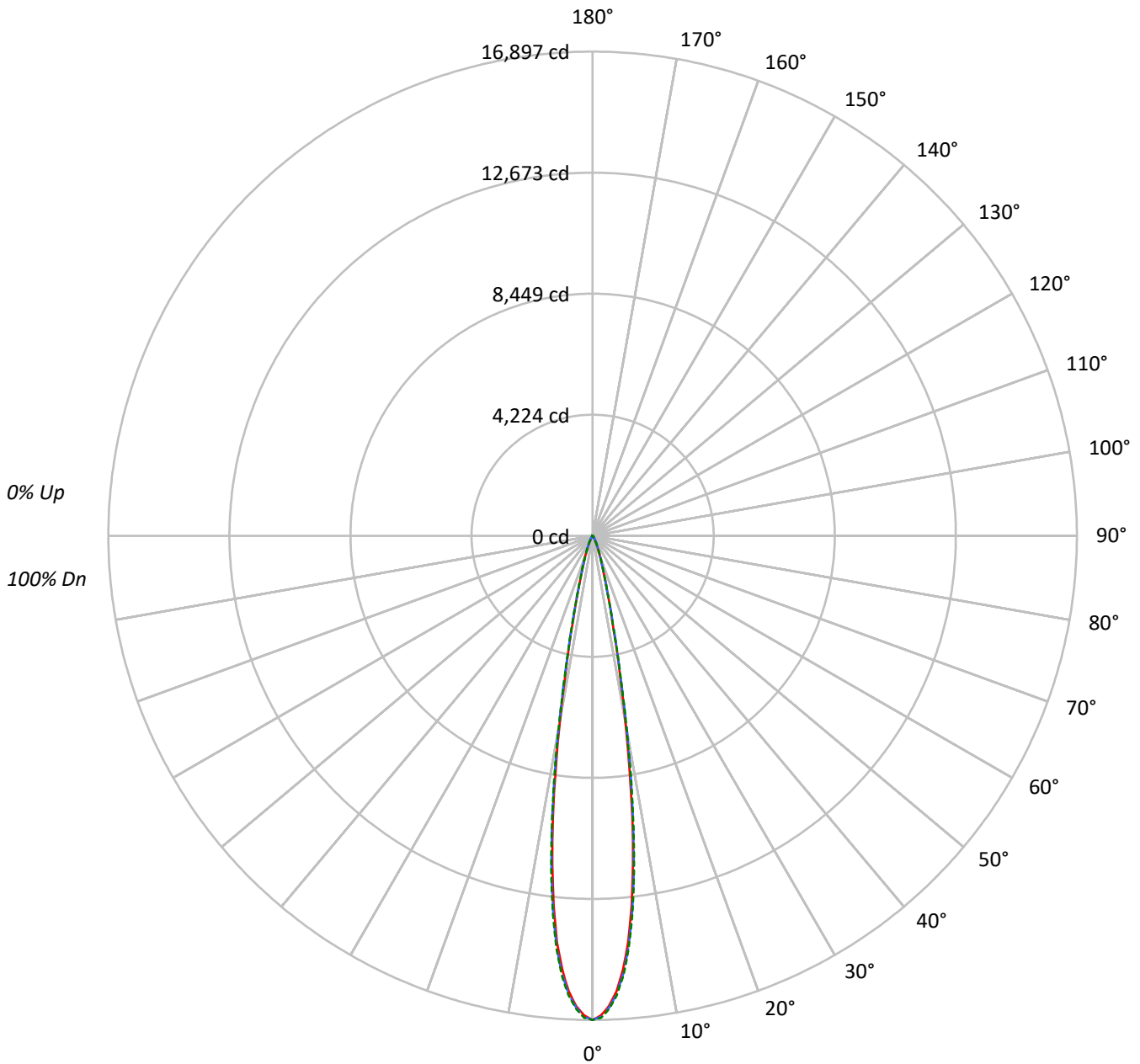
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96					98	
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94					96	
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92					94	
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90					92	
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	88					90	
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87					89	
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85					87	
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83					86	
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82					84	
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81					83	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8336285	8336285	8336285
5°	7055676	7129418	7160470
10°	3299356	3424349	3431012
15°	966369	980415	979904
20°	388046	388571	389043
25°	173053	190582	177191
30°	73489	101062	67052
35°	33728	46858	31439
40°	11013	18355	9789
45°	0	6628	0
50°	0	0	0
55°	3269	1634	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	5398	0	0
85°	10755	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.7	56.8
10°-20°	632.9	32.2
20°-30°	165.3	8.4
30°-40°	42.6	2.2
40°-50°	4.2	0.2
50°-60°	1.3	0.1
60°-70°	0.2	0.0
70°-80°	1.4	0.1
80°-90°	0.3	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°	1914.8	97.5
0°-40°	1957.4	99.6
0°-60°	1963.0	99.9
0°-90°	1965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16897	16897	16897	16897	16897	
5°	14247	14374	14396	14305	14458	1102
15°	1892	1918	1920	1898	1918	621
25°	318	344	350	334	326	158
35°	56	60	78	53	52	38
45°	0	4	10	1	0	3
55°	4	5	2	1	0	3
65°	0	0	0	0	0	1
75°	0	1	0	0	0	4
85°	2	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16896.9	16896.9	16896.9	16896.9	16896.9
1°	16738.4	16804.8	16784.9	16761.2	16827.6
2°	16415.8	16480.3	16474.6	16443.3	16521.1
3°	15918.6	16008.7	16008.7	15962.3	16059.0
4°	15177.6	15315.1	15328.4	15263.0	15383.5
5°	14246.8	14373.9	14395.7	14304.6	14458.4
6°	12985.8	13159.4	13208.7	13103.4	13260.9
7°	11536.9	11719.1	11794.0	11676.4	11852.8
8°	9974.2	10105.1	10195.2	10060.5	10239.8
9°	8225.5	8414.3	8496.8	8365.9	8540.5
10°	6585.9	6759.5	6835.4	6804.1	6848.7
11°	5115.2	5268.9	5320.1	5277.4	5298.3
12°	4005.0	4066.7	4099.9	4071.5	4085.7
13°	3041.0	3123.6	3138.7	3126.4	3133.1
14°	2374.9	2414.8	2431.9	2426.2	2429.0
15°	1892.0	1917.6	1919.5	1897.7	1918.5
16°	1523.8	1543.8	1552.3	1529.5	1557.0
17°	1248.7	1264.8	1274.3	1251.5	1262.9
18°	1027.6	1039.9	1053.2	1033.3	1050.4
19°	862.5	870.1	871.0	865.3	870.1
20°	739.1	735.3	740.1	729.7	741.0
22.5°	486.8	496.2	507.6	495.3	500.0
25°	317.9	344.4	350.1	334.0	325.5
26°	261.9	296.0	311.2	285.6	258.1
27°	217.3	242.0	261.9	227.7	205.9
28°	190.7	211.6	231.5	199.3	173.6
29°	159.4	180.3	214.4	177.4	161.3
30°	129.0	144.2	177.4	134.7	117.7
32.5°	73.1	85.4	114.8	79.7	65.5
35°	56.0	59.8	77.8	53.1	52.2
37.5°	48.4	43.6	60.7	43.6	35.1
40°	17.1	25.6	28.5	19.0	15.2
42.5°	7.6	7.6	12.3	3.8	3.8
45°	0.0	3.8	9.5	0.9	0.0
47.5°	0.0	0.0	1.9	0.0	0.0
50°	0.0	1.9	0.0	0.0	0.0
52.5°	1.9	0.0	0.0	0.0	0.0
55°	3.8	4.7	1.9	0.9	0.0
57.5°	5.7	4.7	1.9	1.9	1.9
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.9	0.9	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.9	0.0	0.0	0.0
77.5°	9.5	1.9	2.8	1.9	3.8
80°	1.9	0.0	0.0	0.0	0.0
82.5°	3.8	0.0	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0	0.0
87.5°	0.0	0.9	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	0.0	0.0	0.0	0.0
72.5°	3.8	2.8	0.0	0.0	3.8



(END OF REPORT)