

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: P283801

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 660.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

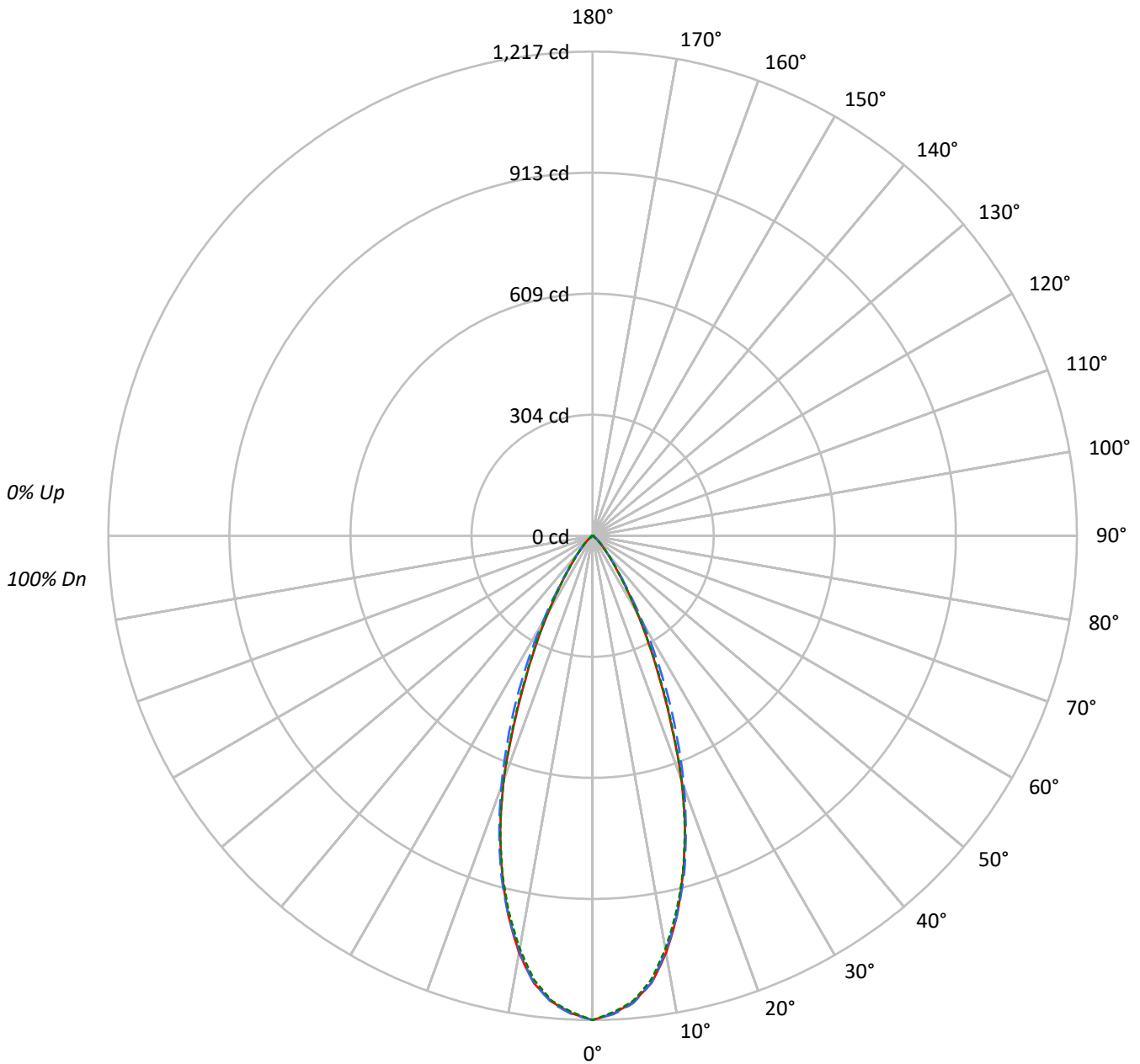
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	600471	600471	600471
5°	582410	583846	581221
10°	533135	530981	527825
15°	448452	452589	447686
20°	342946	352029	342369
25°	217746	245508	221992
30°	126641	142991	128863
35°	66974	71190	67155
40°	35358	36968	35358
45°	19745	20513	20025
50°	9210	11667	9210
55°	3355	6365	3613
60°	3848	3848	3848
65°	4086	4553	4086
70°	5049	4616	5049
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	16.5
10°-20°	241.9	36.6
20°-30°	195.4	29.6
30°-40°	77.2	11.7
40°-50°	23.7	3.6
50°-60°	6.1	0.9
60°-70°	3.7	0.6
70°-80°	2.7	0.4
80°-90°	0.8	0.1
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°	545.9	82.7
0°-40°	623.1	94.4
0°-60°	652.9	98.9
0°-90°	660.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1176	1178	1179	1176	1174	109
15°	878	880	886	883	876	241
25°	400	419	451	427	408	186
35°	111	114	118	115	112	74
45°	28	29	29	29	29	23
55°	4	5	7	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1201.9	1202.6	1203.7	1202.2	1198.7
5°	1176.0	1178.2	1178.9	1176.4	1173.6
7.5°	1133.6	1131.1	1133.2	1129.0	1125.4
10°	1064.2	1061.0	1059.9	1053.6	1053.6
12.5°	978.5	977.4	978.2	975.0	970.0
15°	878.0	880.4	886.1	882.6	876.5
17.5°	771.4	774.9	779.9	778.8	770.7
20°	653.2	663.4	670.5	663.8	652.1
22.5°	518.6	540.6	558.6	544.5	525.4
25°	400.0	419.2	451.0	426.9	407.8
27.5°	303.4	317.2	346.2	322.5	309.4
30°	222.3	230.8	251.0	235.4	226.2
32.5°	159.0	165.0	173.5	164.3	159.7
35°	111.2	114.3	118.2	114.7	111.5
37.5°	78.2	79.3	82.1	79.3	77.9
40°	54.9	55.2	57.4	55.6	54.9
42.5°	39.7	39.7	40.7	40.0	39.7
45°	28.3	28.7	29.4	29.0	28.7
47.5°	20.2	20.9	20.9	21.2	19.8
50°	12.0	14.9	15.2	14.9	12.0
52.5°	6.4	8.9	11.0	8.9	6.4
55°	3.9	5.3	7.4	5.3	4.2
57.5°	3.9	3.9	5.0	4.2	3.9
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.5	3.9	3.9	3.9	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.2	3.5	3.5
72.5°	3.2	3.2	2.8	3.2	3.2
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.4	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)