

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: P136668

Luminaire Tested: **LD6A20D010TE ERW6A20927 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23376)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERW6A20927 6LW121H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

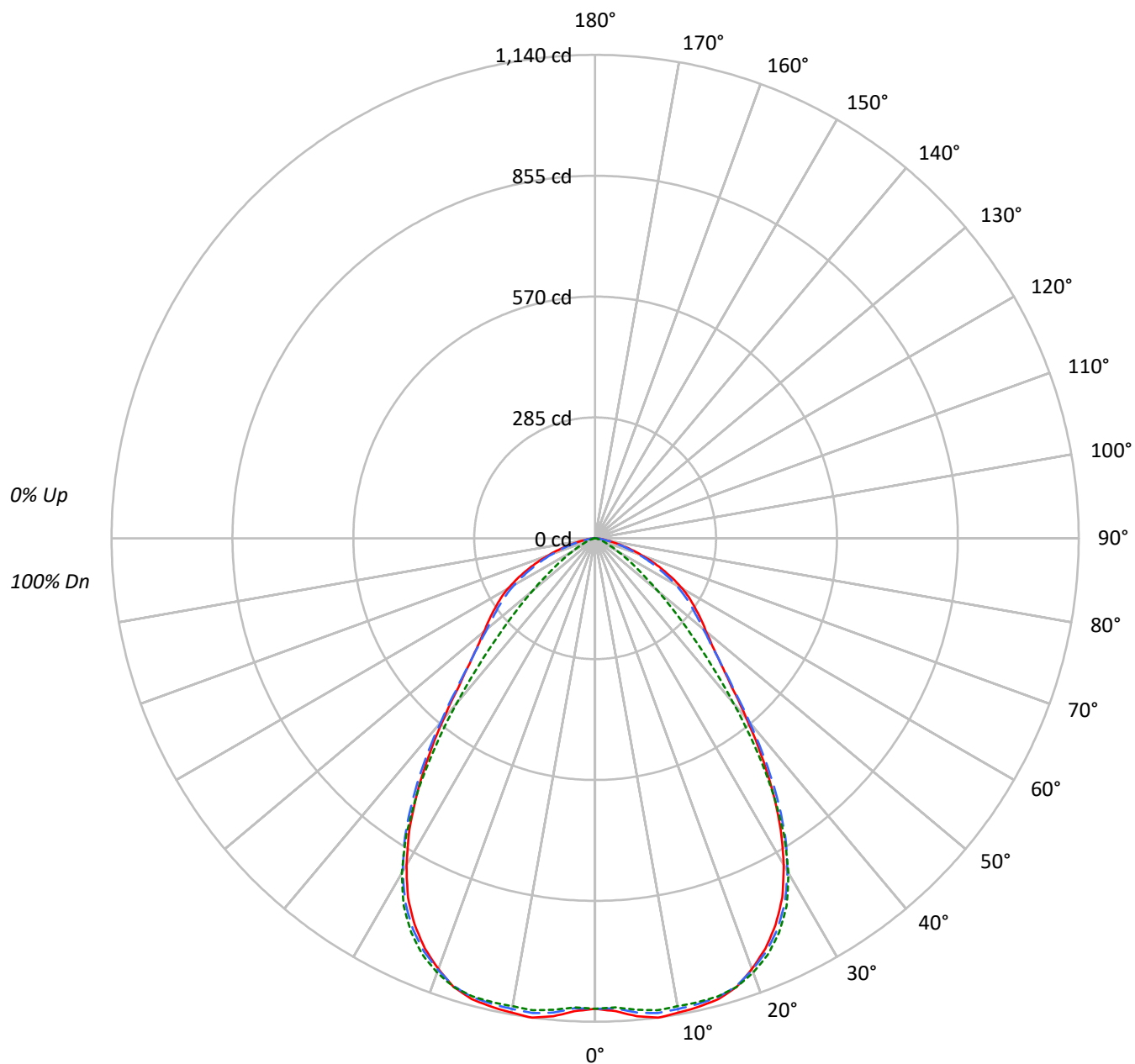
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61		
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55		
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50		
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45		
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37		
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72378	72378	72378
5°	74102	73519	73087
10°	75243	74667	74223
15°	75971	75674	75526
20°	75037	75190	75648
25°	72417	73209	73842
30°	66994	68320	68651
35°	58204	59606	58037
40°	47241	48178	43119
45°	38585	38788	29248
50°	34631	33737	19437
55°	32804	31291	12523
60°	31015	28719	8038
65°	27185	24808	5094
70°	22242	20162	3357
75°	16082	14444	2218
80°	10745	9092	1653
85°	6587	4940	1647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	5.2
10°-20°	315.4	15.4
20°-30°	464.3	22.7
30°-40°	456.9	22.3
40°-50°	309.0	15.1
50°-60°	207.7	10.2
60°-70°	126.7	6.2
70°-80°	50.0	2.4
80°-90°	7.7	0.4
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°	887.0	43.4
0°-40°	1343.9	65.7
0°-60°	1860.6	91.0
0°-90°	2045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1132	1127	1123	1122	1116	108
15°	1125	1120	1120	1122	1118	316
25°	1006	1009	1017	1027	1026	460
35°	731	740	748	736	729	453
45°	418	425	420	348	317	330
55°	288	292	275	154	110	259
65°	176	177	161	65	33	175
75°	64	64	57	22	9	71
85°	9	7	7	3	2	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1116.0	1111.7	1113.9	1111.7	1111.7	1107.2	1111.7	1111.7	1109.4	1109.4	1109.4
5°	1131.5	1129.3	1131.5	1127.1	1129.3	1124.8	1127.1	1124.8	1122.6	1122.6	1122.6
7.5°	1140.2	1135.8	1138.0	1133.6	1135.8	1131.5	1133.6	1131.5	1129.3	1129.3	1127.1
10°	1135.8	1133.6	1133.6	1131.5	1131.5	1127.1	1131.5	1129.3	1124.8	1127.1	1124.8
12.5°	1131.5	1129.3	1131.5	1127.1	1129.3	1122.6	1127.1	1124.8	1122.6	1124.8	1122.6
15°	1124.8	1122.6	1124.8	1120.4	1122.6	1118.2	1122.6	1120.4	1118.2	1120.4	1118.2
17.5°	1109.4	1107.2	1109.4	1107.2	1109.4	1102.8	1107.2	1107.2	1105.0	1107.2	1107.2
20°	1080.8	1078.6	1080.8	1078.6	1080.8	1076.4	1080.8	1080.8	1078.6	1083.0	1083.0
22.5°	1047.8	1047.8	1047.8	1047.8	1050.0	1045.5	1050.0	1050.0	1050.0	1054.4	1054.4
25°	1006.0	1008.2	1008.2	1008.2	1010.4	1008.2	1012.5	1012.5	1012.5	1017.0	1017.0
27.5°	955.4	955.4	957.6	959.7	959.7	957.6	961.9	964.1	964.1	968.6	970.8
30°	889.3	891.5	893.7	895.9	898.1	895.9	900.3	900.3	902.5	906.9	909.1
32.5°	814.5	818.8	818.8	823.3	825.5	823.3	829.9	827.7	829.9	834.3	836.4
35°	730.8	735.2	735.2	739.6	739.6	739.6	744.1	746.3	746.3	748.4	748.4
37.5°	642.7	647.2	644.9	651.6	651.6	649.4	658.2	658.2	656.0	658.2	656.0
40°	554.7	559.1	559.1	563.5	563.5	563.5	570.2	565.7	565.7	565.7	561.3
42.5°	477.7	482.1	482.1	486.4	486.4	486.4	490.9	490.9	486.4	484.2	477.7
45°	418.2	420.4	422.6	424.9	424.9	424.9	429.3	427.1	424.9	420.4	409.5
47.5°	374.2	376.5	376.5	378.6	378.6	378.6	380.8	380.8	376.5	369.8	358.8
50°	341.2	341.2	343.4	343.4	345.6	343.4	345.6	343.4	339.0	332.4	319.2
52.5°	314.8	314.8	314.8	317.0	317.0	317.0	317.0	314.8	310.3	301.6	286.2
55°	288.4	288.4	290.5	290.5	292.7	290.5	290.5	288.4	281.8	275.1	257.5
57.5°	264.2	264.2	264.2	266.4	266.4	266.4	264.2	261.9	257.5	248.8	231.1
60°	237.7	237.7	237.7	237.7	239.9	237.7	237.7	233.4	228.9	220.1	204.7
62.5°	206.9	206.9	206.9	209.1	209.1	206.9	206.9	202.5	198.1	189.3	173.9
65°	176.1	176.1	176.1	178.3	178.3	176.1	176.1	171.7	167.3	160.7	145.3
67.5°	147.5	147.5	147.5	147.5	147.5	145.3	145.3	143.1	138.7	132.0	121.1
70°	116.6	116.6	116.6	118.8	116.6	116.6	116.6	114.4	110.1	105.7	94.7
72.5°	90.3	90.3	90.3	90.3	90.3	90.3	88.1	88.1	83.6	79.2	72.7
75°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	61.6	59.5	57.3	50.6
77.5°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	41.9	41.9	39.6	35.2
80°	28.6	28.6	28.6	28.6	28.6	26.4	26.4	26.4	26.4	24.2	22.0
82.5°	17.6	15.4	17.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	13.2
85°	8.8	8.8	8.8	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1109.4	1105.0	1109.4	1111.7	1107.2	1109.4	1111.7	1107.2
5°	1122.6	1116.0	1120.4	1122.6	1116.0	1118.2	1120.4	1116.0
7.5°	1129.3	1122.6	1127.1	1127.1	1120.4	1124.8	1127.1	1122.6
10°	1124.8	1120.4	1124.8	1124.8	1120.4	1122.6	1124.8	1120.4
12.5°	1122.6	1118.2	1122.6	1124.8	1118.2	1122.6	1124.8	1120.4
15°	1120.4	1116.0	1120.4	1122.6	1116.0	1120.4	1122.6	1118.2
17.5°	1107.2	1105.0	1111.7	1111.7	1107.2	1111.7	1113.9	1109.4
20°	1085.2	1083.0	1089.6	1091.8	1087.4	1091.8	1094.0	1089.6
22.5°	1056.6	1054.4	1061.0	1063.2	1058.8	1063.2	1065.4	1063.2
25°	1021.4	1019.2	1025.8	1028.0	1023.6	1028.0	1030.2	1025.8
27.5°	973.0	970.8	977.3	977.3	975.2	979.5	981.7	977.3
30°	911.3	906.9	913.5	911.3	909.1	913.5	913.5	911.3
32.5°	834.3	829.9	834.3	829.9	829.9	832.1	832.1	827.7
35°	744.1	741.8	739.6	733.0	733.0	733.0	733.0	728.7
37.5°	649.4	642.7	638.4	627.3	623.0	625.1	623.0	618.6
40°	552.6	541.5	532.7	519.5	512.9	512.9	510.7	506.3
42.5°	466.6	451.2	438.0	420.4	413.8	411.7	407.2	405.0
45°	396.2	376.5	356.6	339.0	328.0	325.7	321.4	317.0
47.5°	341.2	317.0	292.7	272.9	261.9	255.3	251.0	248.8
50°	297.2	270.8	242.1	218.0	206.9	198.1	193.7	191.5
52.5°	261.9	233.4	200.4	176.1	162.9	154.1	149.6	145.3
55°	233.4	200.4	167.3	140.9	127.7	118.8	114.4	110.1
57.5°	204.7	173.9	138.7	112.3	99.0	90.3	85.8	83.6
60°	178.3	147.5	114.4	90.3	77.1	68.2	63.8	61.6
62.5°	151.9	123.3	94.7	72.7	59.5	50.6	46.2	46.2
65°	125.5	101.2	74.9	55.0	44.0	37.4	33.0	33.0
67.5°	103.4	81.4	59.5	44.0	33.0	28.6	24.2	24.2
70°	81.4	66.0	46.2	35.2	26.4	19.8	17.6	17.6
72.5°	61.6	50.6	35.2	26.4	19.8	15.4	13.2	13.2
75°	44.0	35.2	26.4	17.6	13.2	11.0	8.8	8.8
77.5°	30.8	24.2	17.6	13.2	8.8	6.6	6.6	6.6
80°	19.8	15.4	11.0	8.8	6.6	4.4	4.4	4.4
82.5°	11.0	8.8	6.6	4.4	4.4	2.2	2.2	2.2
85°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)