

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: P1191808

Luminaire Tested: **LDA4A30930D010TE LAR25NF 4LLWW1**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1191808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26102)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A30930D010TE LAR25NF 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,
at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

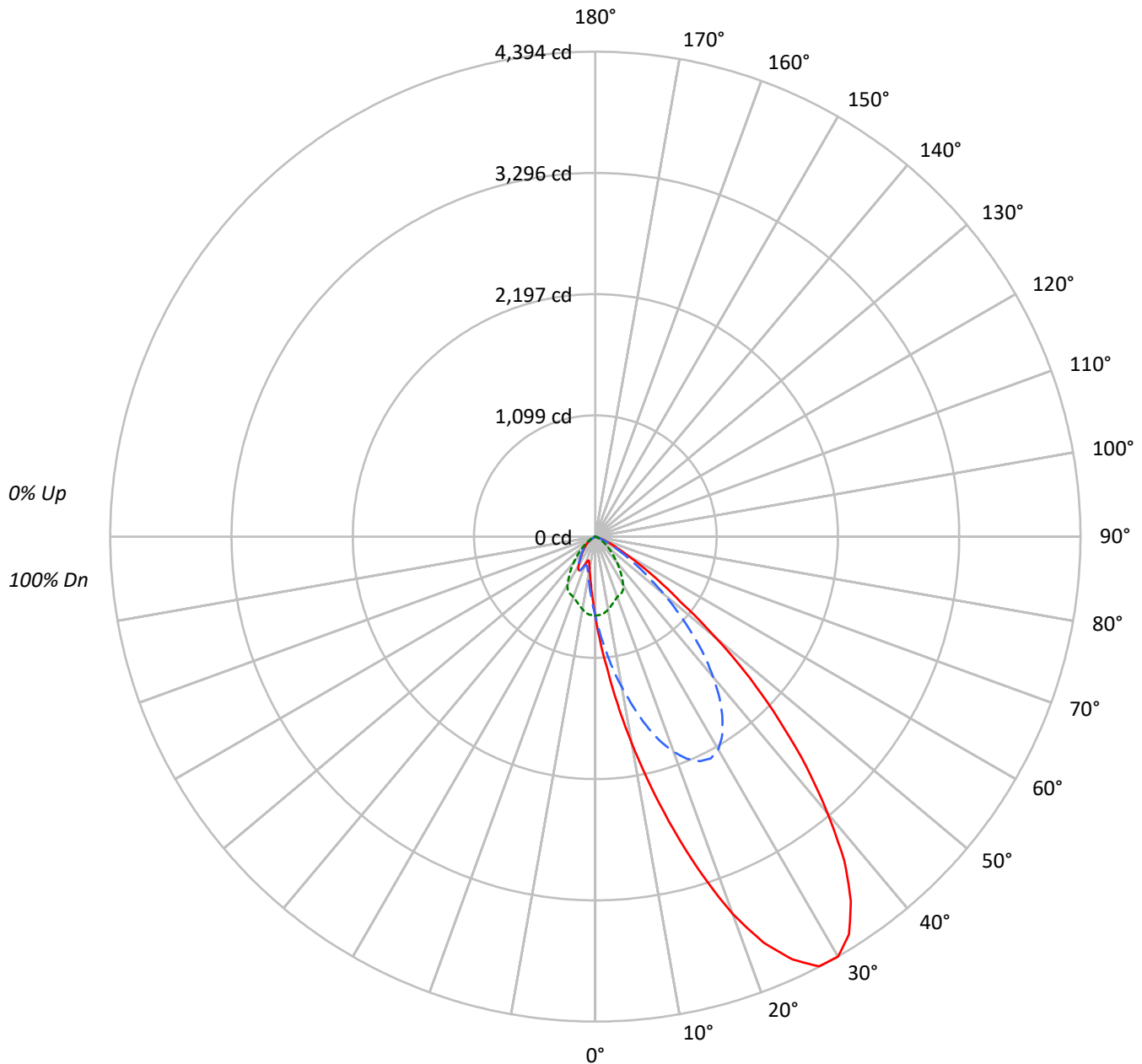
Lumens per Lamp: N/A
Luminaire Lumens: 2582.1 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50		
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88315	88315	88315
5°	146896	87600	55136
10°	237847	83779	37249
15°	351728	79402	28974
20°	477806	76316	34194
25°	575213	76623	46423
30°	625897	71798	43326
35°	607579	60472	34663
40°	526298	48691	28419
45°	410398	37521	24317
50°	272160	28035	18709
55°	151780	20601	11204
60°	80002	13667	4564
65°	43166	6859	496
70°	20592	2416	613
75°	7244	1573	810
80°	2344	2344	0
85°	7076	4670	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.0
10°-20°	301.4	11.7
20°-30°	619.9	24.0
30°-40°	740.4	28.7
40°-50°	546.7	21.2
50°-60°	230.1	8.9
60°-70°	56.5	2.2
70°-80°	7.7	0.3
80°-90°	3.0	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°	997.6	38.6
0°-40°	1738.0	67.3
0°-60°	2514.8	97.4
0°-90°	2582.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	1186	1022	708	508	445	136
15°	2754	1768	622	282	227	808
25°	4226	2245	563	340	341	1933
35°	4035	2006	402	240	230	2475
45°	2353	1237	215	141	139	1806
55°	706	459	96	60	52	673
65°	148	101	24	5	2	161
75°	15	8	3	2	2	22
85°	5	5	3	2	0	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	931.0	919.2	919.2	922.6	932.7	924.2	917.5	910.9	917.5	902.5	907.5
5°	1186.4	1184.7	1184.7	1171.3	1183.2	1184.7	1171.3	1159.5	1163.0	1141.1	1141.1
7.5°	1522.5	1512.5	1509.1	1490.6	1504.1	1502.4	1480.6	1460.4	1460.4	1425.1	1416.6
10°	1899.0	1885.5	1878.8	1855.3	1867.1	1860.3	1828.4	1798.2	1789.8	1739.4	1720.9
12.5°	2314.1	2305.6	2295.6	2265.4	2275.4	2262.0	2216.6	2172.9	2154.5	2087.2	2055.3
15°	2754.4	2767.8	2751.1	2715.7	2722.4	2699.0	2640.1	2579.6	2551.1	2460.3	2413.3
17.5°	3208.1	3225.0	3206.4	3166.2	3164.4	3132.5	3051.8	2977.9	2935.9	2819.9	2757.8
20°	3640.1	3645.1	3621.5	3577.8	3567.8	3524.0	3426.5	3322.5	3282.1	3139.2	3060.2
22.5°	3979.5	3997.9	3969.4	3937.5	3905.6	3850.1	3735.8	3621.5	3564.4	3401.3	3305.6
25°	4226.5	4268.6	4234.9	4197.9	4162.7	4097.1	3969.4	3846.8	3776.2	3594.7	3485.4
27.5°	4389.5	4429.9	4392.8	4350.9	4314.0	4238.2	4098.8	3981.2	3895.4	3697.2	3579.5
30°	4394.5	4443.3	4404.7	4359.3	4324.0	4248.4	4105.6	3984.5	3888.7	3690.5	3567.8
32.5°	4273.6	4312.2	4273.6	4234.9	4194.6	4122.3	3979.5	3863.5	3762.7	3572.8	3450.1
35°	4035.0	4068.5	4029.8	3984.5	3956.0	3892.1	3756.0	3645.1	3544.2	3369.4	3261.9
37.5°	3705.5	3735.8	3700.5	3675.3	3633.3	3576.1	3451.8	3352.7	3256.9	3098.9	3003.1
40°	3268.6	3332.5	3298.8	3282.1	3243.4	3194.6	3085.4	2998.1	2910.7	2772.8	2693.8
42.5°	2831.7	2892.2	2862.0	2850.1	2816.6	2774.5	2683.8	2609.8	2529.2	2415.0	2347.7
45°	2352.7	2416.6	2388.1	2382.9	2354.4	2322.5	2225.0	2186.4	2115.8	2008.2	1976.3
47.5°	1902.4	1914.1	1887.2	1889.0	1868.8	1846.9	1767.9	1744.4	1709.0	1626.7	1589.8
50°	1418.3	1426.8	1404.9	1411.6	1398.2	1384.7	1331.0	1319.3	1297.4	1241.8	1220.1
52.5°	976.3	1015.0	999.9	1006.7	999.9	994.9	973.0	952.9	942.8	907.5	897.5
55°	705.8	709.2	697.4	704.1	699.1	697.4	684.0	672.2	667.2	645.3	642.0
57.5°	489.1	492.4	492.4	489.1	487.4	483.9	475.6	468.9	465.5	460.5	450.4
60°	324.3	337.8	332.8	336.1	334.4	334.4	327.6	322.6	320.9	310.9	310.9
62.5°	221.9	230.2	226.9	228.6	226.9	226.9	221.9	218.4	218.4	216.8	211.7
65°	147.9	152.9	149.6	151.3	151.3	151.3	147.9	144.6	144.6	142.8	139.4
67.5°	94.0	97.5	95.8	97.5	95.8	97.5	94.0	92.5	90.7	90.7	89.0
70°	57.1	58.8	57.1	58.8	57.1	57.1	55.4	55.4	53.8	52.1	52.1
72.5°	30.2	31.9	31.9	31.9	31.9	31.9	30.2	28.6	28.6	28.6	26.9
75°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	13.5	13.5	13.5
77.5°	6.7	6.7	6.7	6.7	8.4	6.7	6.7	6.7	6.7	6.7	6.7
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	5.0	5.0	5.0	5.0	5.0	5.0	6.7	6.7	6.7	6.7	5.0
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.4	8.4	6.7	6.7
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	894.0	885.6	882.3	875.6	867.1	862.1	857.1	858.8	846.9	838.6	826.8
5°	1119.2	1100.7	1090.7	1075.5	1057.1	1041.9	1028.4	1021.7	999.9	984.8	952.9
7.5°	1384.7	1352.8	1332.6	1305.8	1273.9	1247.0	1220.1	1201.6	1168.0	1139.4	1090.7
10°	1675.5	1626.7	1591.5	1551.2	1502.4	1458.7	1418.3	1384.7	1334.3	1290.7	1226.8
12.5°	1993.2	1924.2	1873.8	1815.0	1746.1	1685.6	1613.3	1574.6	1505.8	1445.2	1362.9
15°	2330.8	2240.1	2169.5	2088.9	1998.2	1917.4	1825.0	1767.9	1677.1	1599.8	1497.3
17.5°	2655.2	2540.9	2448.5	2346.0	2233.5	2129.3	2019.9	1939.3	1828.4	1732.7	1610.0
20°	2937.6	2801.4	2688.8	2564.4	2431.7	2304.0	2184.7	2077.2	1947.8	1835.1	1695.6
22.5°	3167.7	3009.8	2880.5	2735.9	2583.0	2438.5	2302.3	2179.7	2031.8	1907.4	1754.4
25°	3334.2	3161.0	3016.6	2856.8	2688.8	2524.2	2379.6	2245.2	2083.9	1951.1	1788.0
27.5°	3421.5	3238.3	3085.4	2914.1	2735.9	2564.4	2408.2	2265.4	2095.6	1956.1	1788.0
30°	3406.5	3219.8	3061.9	2885.5	2705.7	2534.2	2371.2	2228.3	2053.6	1912.4	1744.4
32.5°	3290.4	3107.3	2952.7	2781.3	2604.8	2438.5	2275.4	2137.6	1962.8	1825.0	1662.1
35°	3098.9	2925.8	2779.5	2616.5	2450.2	2293.9	2146.0	2006.5	1838.4	1707.5	1554.5
37.5°	2850.1	2692.2	2559.4	2408.2	2255.2	2114.1	1967.8	1848.6	1699.0	1576.3	1426.8
40°	2552.7	2413.3	2295.6	2161.2	2023.4	1900.7	1778.0	1662.1	1515.8	1406.6	1278.9
42.5°	2225.0	2105.7	2004.9	1887.2	1767.9	1663.7	1557.9	1457.0	1336.0	1236.8	1117.6
45°	1872.1	1771.3	1688.9	1594.8	1495.6	1398.2	1320.9	1236.8	1124.3	1050.3	949.6
47.5°	1507.4	1430.1	1367.9	1295.7	1216.7	1156.2	1082.2	1015.0	932.7	863.8	781.4
50°	1161.3	1107.4	1063.8	1013.4	956.3	900.8	857.1	805.0	742.7	687.3	621.8
52.5°	858.8	823.5	796.6	762.9	724.3	695.8	655.4	616.8	569.7	527.7	477.2
55°	615.1	594.9	578.1	557.9	531.0	505.8	485.7	458.8	425.1	393.2	356.3
57.5°	442.0	420.1	418.4	396.6	386.5	368.0	349.5	329.4	305.9	284.0	257.1
60°	305.9	290.7	284.0	275.5	263.8	252.1	243.6	230.2	213.4	198.2	178.2
62.5°	206.7	196.7	193.2	189.9	179.8	174.8	164.7	156.3	144.6	132.8	119.4
65°	136.1	129.4	126.1	121.0	115.9	112.6	107.5	100.8	90.7	84.0	75.6
67.5°	85.7	80.7	77.3	75.6	70.6	68.9	63.8	60.5	53.8	50.4	45.4
70°	48.7	47.1	43.7	43.7	40.4	36.9	35.3	31.9	30.2	26.9	25.2
72.5°	25.2	25.2	23.5	21.9	20.2	20.2	18.5	16.8	15.2	13.5	13.5
75°	11.7	11.7	11.7	10.0	10.0	10.0	8.4	8.4	8.4	6.7	6.7
77.5°	6.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	5.0	3.3	3.3	3.3	3.3	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	5.0	5.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	818.4	815.0	806.7	805.0	786.5	783.1	773.1	757.9	746.2	742.7	746.2
5°	941.1	925.9	900.8	895.7	865.5	855.4	833.5	810.0	789.8	778.1	773.1
7.5°	1067.1	1041.9	1005.0	986.5	942.8	920.9	889.0	855.4	823.5	801.6	788.1
10°	1188.2	1147.8	1080.5	1065.5	1011.7	976.3	932.7	887.3	846.9	816.7	794.8
12.5°	1302.4	1253.7	1184.7	1142.8	1072.2	1026.8	971.3	915.9	865.5	825.2	794.8
15°	1420.0	1356.2	1270.5	1211.6	1131.1	1070.5	1003.2	939.4	880.6	830.2	793.3
17.5°	1517.5	1438.5	1337.7	1267.2	1173.0	1100.7	1023.4	949.6	885.6	828.5	786.5
20°	1589.8	1497.3	1383.1	1300.7	1196.5	1115.9	1031.9	951.1	880.6	818.4	773.1
22.5°	1638.5	1532.7	1408.3	1317.6	1208.3	1120.9	1030.1	946.1	873.8	810.0	761.3
25°	1662.1	1547.7	1418.3	1320.9	1206.6	1115.9	1021.7	936.1	862.1	796.6	749.5
27.5°	1658.7	1537.7	1404.9	1302.4	1186.4	1092.4	996.5	910.9	838.6	773.1	724.3
30°	1610.0	1490.6	1356.2	1252.0	1137.8	1043.6	947.8	863.8	793.3	726.0	680.6
32.5°	1534.3	1411.6	1280.5	1164.6	1067.1	974.7	884.0	798.3	731.0	665.4	621.8
35°	1431.8	1314.1	1188.2	1089.0	983.1	894.0	806.7	726.0	662.1	598.3	557.9
37.5°	1312.5	1199.9	1084.0	981.5	889.0	806.7	724.3	652.0	588.1	531.0	492.4
40°	1174.7	1070.5	964.6	877.3	786.5	710.8	635.2	564.7	512.6	460.5	426.8
42.5°	1025.1	932.7	836.9	761.3	678.9	611.8	539.5	489.1	438.6	391.6	364.7
45°	868.8	788.1	707.5	638.5	571.4	512.6	450.4	403.4	364.7	326.1	302.4
47.5°	714.2	645.3	579.8	524.3	465.5	416.8	373.0	331.1	294.1	262.2	243.6
50°	557.9	512.6	460.5	415.1	368.0	327.6	287.4	257.1	228.6	205.0	193.2
52.5°	435.3	393.2	351.3	314.3	280.7	247.1	220.1	194.9	174.8	159.6	151.3
55°	324.3	290.7	258.8	230.2	203.4	181.5	163.0	147.9	134.4	122.7	119.4
57.5°	231.9	206.7	184.8	163.0	146.1	132.8	121.0	110.9	102.5	94.0	92.5
60°	161.3	142.8	129.4	115.9	105.9	95.8	89.0	82.3	75.6	70.6	68.9
62.5°	107.5	97.5	87.5	80.7	75.6	67.3	63.8	58.8	55.4	50.4	48.7
65°	68.9	62.1	57.1	52.1	48.7	45.4	42.1	38.6	35.3	31.9	31.9
67.5°	42.1	36.9	35.3	31.9	28.6	26.9	25.2	21.9	20.2	20.2	18.5
70°	23.5	20.2	18.5	16.8	15.2	15.2	13.5	11.7	11.7	10.0	10.0
72.5°	11.7	11.7	10.0	10.0	8.4	8.4	6.7	6.7	6.7	5.0	5.0
75°	6.7	6.7	5.0	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	5.0	5.0	5.0	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191808

CATALOG NUMBER: LDA4A30930D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	732.7	716.0	712.5	712.5	642.0	599.9	568.0	559.7
5°	749.5	726.0	714.2	707.5	581.4	507.6	458.8	445.3
7.5°	757.9	724.3	705.8	690.6	522.6	426.8	374.7	359.7
10°	754.6	714.2	689.1	668.9	468.9	364.7	310.9	297.4
12.5°	747.9	702.5	670.6	645.3	423.5	315.9	267.2	253.8
15°	741.2	689.1	652.0	621.8	386.5	282.3	238.6	226.9
17.5°	727.7	673.9	631.9	599.9	363.0	268.9	231.9	225.2
20°	712.5	657.1	613.3	581.4	356.3	282.3	260.5	260.5
22.5°	702.5	645.3	603.3	571.4	368.0	314.3	305.9	310.9
25°	689.1	635.2	593.2	563.0	379.7	339.5	334.4	341.1
27.5°	667.2	613.3	573.1	542.8	373.0	336.1	331.1	334.4
30°	623.5	571.4	536.0	504.1	346.2	310.9	302.4	304.2
32.5°	568.0	517.6	483.9	453.7	307.6	274.0	265.5	265.5
35°	507.6	460.5	428.5	401.6	270.5	240.3	231.9	230.2
37.5°	447.0	403.4	376.4	351.3	236.9	210.1	201.7	200.0
40°	386.5	347.8	322.6	302.4	208.4	186.5	178.2	176.5
42.5°	329.4	295.7	274.0	257.1	181.5	164.7	158.0	156.3
45°	272.2	245.3	228.6	215.1	158.0	141.1	139.4	139.4
47.5°	220.1	198.2	186.5	178.2	134.4	121.0	119.4	121.0
50°	176.5	161.3	152.9	146.1	114.2	102.5	97.5	97.5
52.5°	139.4	129.4	124.4	119.4	94.0	82.3	75.6	74.0
55°	110.9	102.5	99.2	95.8	74.0	60.5	53.8	52.1
57.5°	87.5	80.7	77.3	74.0	55.4	42.1	35.3	33.6
60°	65.6	60.5	57.1	55.4	38.6	25.2	20.2	18.5
62.5°	47.1	43.7	40.4	38.6	23.5	13.5	8.4	6.7
65°	28.6	28.6	25.2	23.5	11.7	5.0	3.3	1.7
67.5°	16.8	15.2	13.5	13.5	5.0	3.3	1.7	1.7
70°	8.4	8.4	6.7	6.7	3.3	1.7	1.7	1.7
72.5°	5.0	5.0	5.0	3.3	3.3	1.7	1.7	1.7
75°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
77.5°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	0.0
80°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	0.0
82.5°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
85°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)