

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: P1212196

Luminaire Tested: **LDSQA4A20930D010TE LAR25NF 4LSQAL1H 30°**

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: P1212196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26803)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A20930D010TE LAR25NF 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

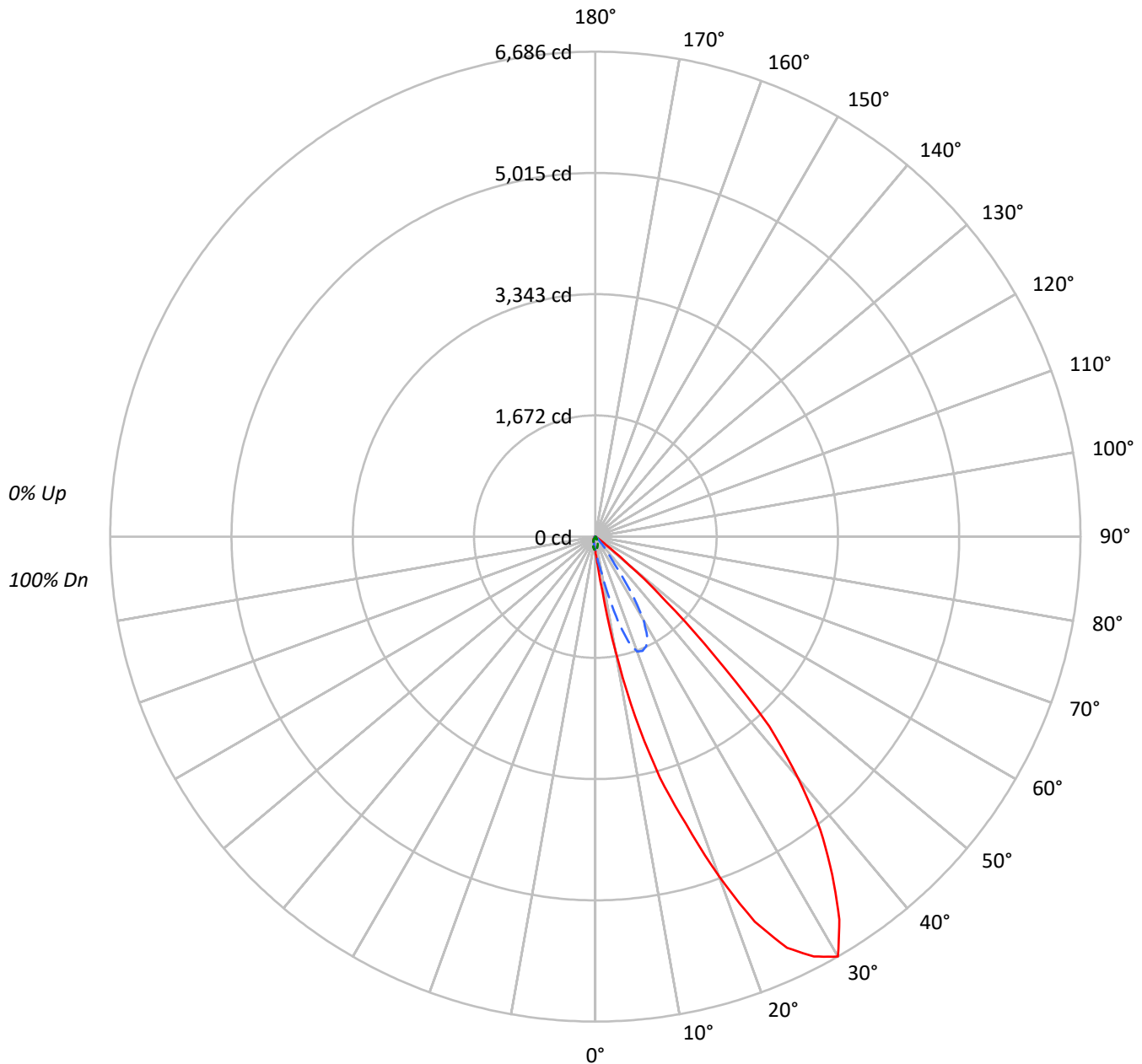
Lumens per Lamp: N/A
Luminaire Lumens: 1674.5 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18087	18087	18087
5°	40474	16999	12185
10°	158710	14893	9591
15°	344526	12055	8344
20°	513969	8928	7536
25°	668513	6296	6563
30°	747854	4228	5739
35°	673023	2484	4872
40°	549262	1695	4249
45°	315366	1151	3466
50°	92250	889	2924
55°	10641	709	2398
60°	2286	814	1957
65°	779	779	1352
70°	708	963	963
75°	636	1273	936
80°	0	1897	948
85°	0	3779	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	1.6
10°-20°	229.2	13.7
20°-30°	546.8	32.7
30°-40°	577.1	34.5
40°-50°	261.7	15.6
50°-60°	23.0	1.4
60°-70°	4.8	0.3
70°-80°	3.2	0.2
80°-90°	2.0	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°	802.8	47.9
0°-40°	1379.9	82.4
0°-60°	1664.6	99.4
0°-90°	1674.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	187	187	187	187	187	
5°	416	305	175	134	125	75
15°	3435	1208	120	82	83	999
25°	6254	1663	59	50	61	2841
35°	5691	459	21	29	41	3514
45°	2302	65	8	16	25	1825
55°	63	10	4	9	14	126
65°	3	3	3	7	6	4
75°	2	2	3	4	2	1
85°	0	2	3	2	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	277.4	279.1	271.5	272.4	264.8	268.2	265.8	259.0	253.8	245.5	242.1
5°	416.2	418.7	401.8	396.9	379.2	379.2	371.6	353.9	338.0	318.6	305.1
7.5°	760.9	771.0	720.5	682.6	627.2	613.7	587.7	527.2	477.6	427.1	389.3
10°	1613.4	1594.9	1490.6	1404.8	1261.9	1209.0	1138.4	964.3	804.6	645.6	521.3
12.5°	2544.1	2603.8	2402.8	2333.0	2106.8	2059.0	1908.5	1624.2	1354.4	1073.6	824.7
15°	3435.2	3452.9	3277.1	3163.7	2887.8	2825.7	2640.8	2307.0	1943.8	1552.0	1208.2
17.5°	4150.6	4221.4	3963.2	3841.4	3483.2	3383.1	3165.4	2759.4	2354.9	1926.9	1519.2
20°	4985.5	5004.1	4698.0	4463.4	3995.2	3843.0	3582.4	3078.7	2597.0	2108.6	1687.3
22.5°	5744.7	5740.5	5347.0	5015.8	4423.1	4241.5	3919.4	3322.6	2762.6	2189.3	1703.3
25°	6254.2	6267.7	5846.5	5454.7	4727.4	4482.0	4118.7	3449.4	2818.9	2186.7	1663.0
27.5°	6525.8	6512.2	6060.8	5642.1	4839.2	4564.3	4170.0	3453.8	2767.7	2101.0	1541.9
30°	6685.5	6505.6	6023.8	5589.2	4763.6	4481.0	4080.0	3321.0	2597.0	1909.4	1325.8
32.5°	6258.4	6188.6	5769.1	5307.5	4503.0	4223.0	3827.0	3038.4	2326.2	1615.8	950.1
35°	5690.9	5693.4	5284.0	4852.7	4094.4	3850.5	3442.0	2694.6	1995.8	1123.2	459.0
37.5°	5095.7	5104.1	4714.9	4313.8	3638.6	3382.3	2999.8	2302.8	1435.9	571.7	276.6
40°	4343.3	4360.8	4025.4	3703.4	3080.5	2833.3	2491.9	1742.8	802.9	319.5	187.5
42.5°	3548.7	3570.6	3273.0	2987.1	2457.4	2254.0	1951.4	1079.5	398.6	206.9	110.2
45°	2301.9	2365.0	2143.8	2023.6	1716.7	1595.7	1273.7	550.7	240.5	121.0	64.7
47.5°	1317.4	1318.3	1131.6	906.2	743.2	646.6	505.2	250.6	140.4	68.2	39.5
50°	612.1	627.2	496.9	413.6	296.0	250.6	206.0	135.4	73.9	39.5	24.3
52.5°	178.2	188.3	170.6	154.6	131.1	116.9	100.1	66.5	38.7	23.5	15.2
55°	63.0	67.3	63.0	58.9	53.0	47.9	42.9	31.9	21.8	14.2	10.1
57.5°	26.1	27.0	26.1	25.3	23.5	23.5	21.0	17.7	13.4	9.3	6.8
60°	11.8	12.6	11.8	12.6	11.8	11.8	11.8	12.6	8.4	5.9	5.1
62.5°	5.1	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.1	4.2	3.4
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	2.5	2.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	237.9	230.4	218.6	211.0	207.7	202.6	199.3	190.9	187.5	180.7	178.2
5°	292.6	277.4	259.8	245.5	236.3	226.2	211.0	194.2	185.8	174.8	169.0
7.5°	354.7	322.0	290.9	265.8	253.8	240.5	221.1	195.0	179.1	164.7	156.4
10°	433.8	366.6	317.8	277.4	259.8	242.1	218.6	188.3	168.2	151.4	142.1
12.5°	618.8	442.2	342.2	284.2	261.4	239.6	210.2	179.1	155.6	136.2	126.2
15°	890.3	618.0	407.8	290.1	255.6	228.7	195.0	163.9	139.6	120.2	110.2
17.5°	1130.8	787.8	498.6	311.9	253.8	216.1	176.6	144.6	121.0	102.6	94.1
20°	1261.9	877.0	559.1	325.3	246.4	196.8	155.6	125.3	102.6	86.6	79.0
22.5°	1264.4	871.8	537.3	296.0	217.0	170.6	134.5	106.0	85.8	71.4	65.6
25°	1188.8	777.7	448.2	232.9	177.4	144.6	112.6	88.3	69.8	58.9	53.8
27.5°	1047.6	632.2	329.6	168.2	138.7	116.9	90.8	70.6	54.6	47.9	43.7
30°	823.9	411.9	192.5	125.3	107.7	89.9	69.0	49.6	42.9	37.8	34.4
32.5°	442.2	200.1	134.5	92.5	76.6	63.0	45.4	36.2	31.1	27.8	27.0
35°	231.2	146.3	89.9	58.9	48.8	41.2	31.1	25.3	22.6	21.0	21.0
37.5°	165.7	91.6	57.2	37.8	31.9	26.1	21.8	18.5	16.9	16.9	16.9
40°	98.4	56.4	34.4	24.3	21.0	18.5	16.0	13.4	13.4	13.4	13.4
42.5°	59.7	35.4	24.3	16.9	15.2	13.4	11.8	10.9	10.1	10.1	10.9
45°	37.0	24.3	16.0	12.6	11.8	10.1	9.3	8.4	8.4	8.4	9.3
47.5°	23.5	17.7	11.8	8.4	7.6	6.8	5.9	5.9	6.8	6.8	7.6
50°	17.7	10.9	7.6	5.9	5.1	5.1	4.2	5.1	5.1	5.9	6.8
52.5°	10.1	6.8	5.1	4.2	4.2	3.4	3.4	4.2	4.2	5.1	5.9
55°	6.8	5.1	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.1
57.5°	5.1	4.2	3.4	3.4	3.4	2.5	3.4	3.4	3.4	4.2	5.1
60°	4.2	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2	4.2
62.5°	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4	3.4	4.2
65°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.2
67.5°	2.5	2.5	3.4	3.4	3.4	2.5	3.4	3.4	3.4	3.4	4.2
70°	2.5	2.5	2.5	3.4	3.4	2.5	3.4	3.4	3.4	3.4	3.4
72.5°	2.5	2.5	2.5	3.4	3.4	2.5	3.4	3.4	3.4	3.4	3.4
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	3.4
77.5°	2.5	2.5	2.5	2.5	3.4	2.5	3.4	3.4	3.4	3.4	3.4
80°	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	3.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	171.5	169.0	163.9	163.0	162.2	158.9	156.4	153.8	153.8	151.4	149.7
5°	158.9	154.6	148.8	146.3	145.5	141.2	137.9	135.4	134.5	132.0	129.4
7.5°	145.5	140.4	133.6	131.1	130.3	126.2	122.7	120.2	118.6	116.1	114.3
10°	131.1	125.3	119.4	116.9	116.1	111.8	109.3	106.8	105.0	103.4	101.7
12.5°	116.1	111.0	105.0	102.6	101.7	98.4	95.9	94.1	93.3	91.6	90.8
15°	100.9	95.9	90.8	89.1	88.3	85.8	84.0	83.2	82.4	82.4	81.5
17.5°	85.8	81.5	77.4	76.6	75.7	73.9	73.1	72.3	73.1	73.1	73.9
20°	71.4	68.2	64.7	64.7	63.8	63.0	63.0	63.0	64.7	65.6	67.3
22.5°	58.9	56.4	53.8	53.8	53.8	53.8	53.8	55.5	57.2	58.9	59.7
25°	48.8	46.2	45.4	45.4	45.4	46.2	47.1	48.8	50.4	52.1	53.8
27.5°	39.5	37.8	37.8	37.8	38.7	39.5	40.3	42.0	44.5	46.2	47.9
30°	31.9	31.1	31.1	31.9	32.8	33.6	35.4	37.0	38.7	40.3	42.0
32.5°	25.3	26.1	26.1	27.0	27.8	28.6	30.2	31.9	33.6	35.4	36.2
35°	21.0	21.0	21.8	22.6	23.5	24.3	26.1	27.8	28.6	30.2	31.9
37.5°	16.9	17.7	18.5	19.4	20.2	21.0	21.8	23.5	24.3	26.1	27.8
40°	14.2	15.2	16.0	16.9	16.9	18.5	18.5	20.2	21.0	22.6	24.3
42.5°	11.8	12.6	13.4	14.2	14.2	15.2	16.0	16.9	18.5	19.4	21.0
45°	9.3	10.1	10.9	11.8	12.6	13.4	13.4	15.2	16.0	16.9	18.5
47.5°	8.4	9.3	10.1	10.1	10.9	11.8	11.8	13.4	14.2	15.2	16.0
50°	6.8	7.6	8.4	9.3	9.3	10.1	10.9	11.8	12.6	13.4	13.4
52.5°	5.9	6.8	7.6	7.6	8.4	9.3	9.3	10.1	10.9	10.9	11.8
55°	5.9	6.8	6.8	7.6	7.6	8.4	8.4	9.3	9.3	10.1	10.1
57.5°	5.1	5.9	5.9	6.8	6.8	7.6	7.6	8.4	8.4	8.4	9.3
60°	5.1	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	8.4
62.5°	4.2	5.1	5.1	5.9	5.9	5.9	6.8	6.8	6.8	7.6	7.6
65°	4.2	5.1	5.1	5.9	5.9	5.9	5.9	5.9	6.8	6.8	6.8
67.5°	4.2	4.2	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9
70°	4.2	4.2	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.4	4.2	4.2	4.2	4.2	5.1	5.1	5.1	5.1	5.1	4.2
75°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.4	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5
85°	3.4	2.5	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5	1.7
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212196

CATALOG NUMBER: LDSQA4A20930D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	148.0	146.3	147.2	147.2	145.5	144.6	144.6	145.5
5°	127.8	126.2	127.0	127.0	125.3	124.4	124.4	125.3
7.5°	112.6	111.0	111.8	111.8	110.2	110.2	110.2	110.2
10°	100.9	100.1	100.1	100.1	98.4	99.2	98.4	97.5
12.5°	89.9	89.9	89.9	89.9	89.1	89.9	89.1	89.1
15°	81.5	81.5	82.4	82.4	82.4	83.2	83.2	83.2
17.5°	74.8	75.7	76.6	77.4	77.4	78.2	78.2	78.2
20°	68.2	69.8	70.6	71.4	71.4	73.1	72.3	73.1
22.5°	61.4	63.0	63.8	64.7	65.6	66.5	66.5	67.3
25°	55.5	57.2	58.0	58.9	59.7	61.4	61.4	61.4
27.5°	49.6	51.3	52.1	53.8	54.6	56.4	56.4	56.4
30°	43.7	45.4	46.2	47.1	48.8	50.4	50.4	51.3
32.5°	37.8	40.3	41.2	42.0	43.7	45.4	46.2	46.2
35°	33.6	35.4	36.2	37.8	38.7	41.2	41.2	41.2
37.5°	29.4	31.1	32.8	33.6	34.4	36.2	37.0	37.8
40°	26.1	27.8	28.6	29.4	31.1	32.8	33.6	33.6
42.5°	22.6	24.3	25.3	26.1	27.0	28.6	28.6	28.6
45°	20.2	21.0	21.8	22.6	23.5	24.3	25.3	25.3
47.5°	16.9	18.5	18.5	19.4	20.2	21.8	21.8	22.6
50°	14.2	16.0	16.0	16.9	17.7	18.5	19.4	19.4
52.5°	12.6	13.4	14.2	14.2	15.2	16.0	16.9	16.9
55°	10.9	11.8	11.8	12.6	12.6	13.4	14.2	14.2
57.5°	9.3	10.1	10.9	10.9	10.9	11.8	11.8	12.6
60°	8.4	9.3	9.3	9.3	9.3	10.1	10.1	10.1
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	6.8	6.8	6.8	6.8	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	3.4
72.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
75°	4.2	3.4	3.4	3.4	3.4	3.4	2.5	2.5
77.5°	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7
82.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
87.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)