

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: P1212306

Luminaire Tested: **LDSQA4A30930D010TE LAR25NF 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26800)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR25NF 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

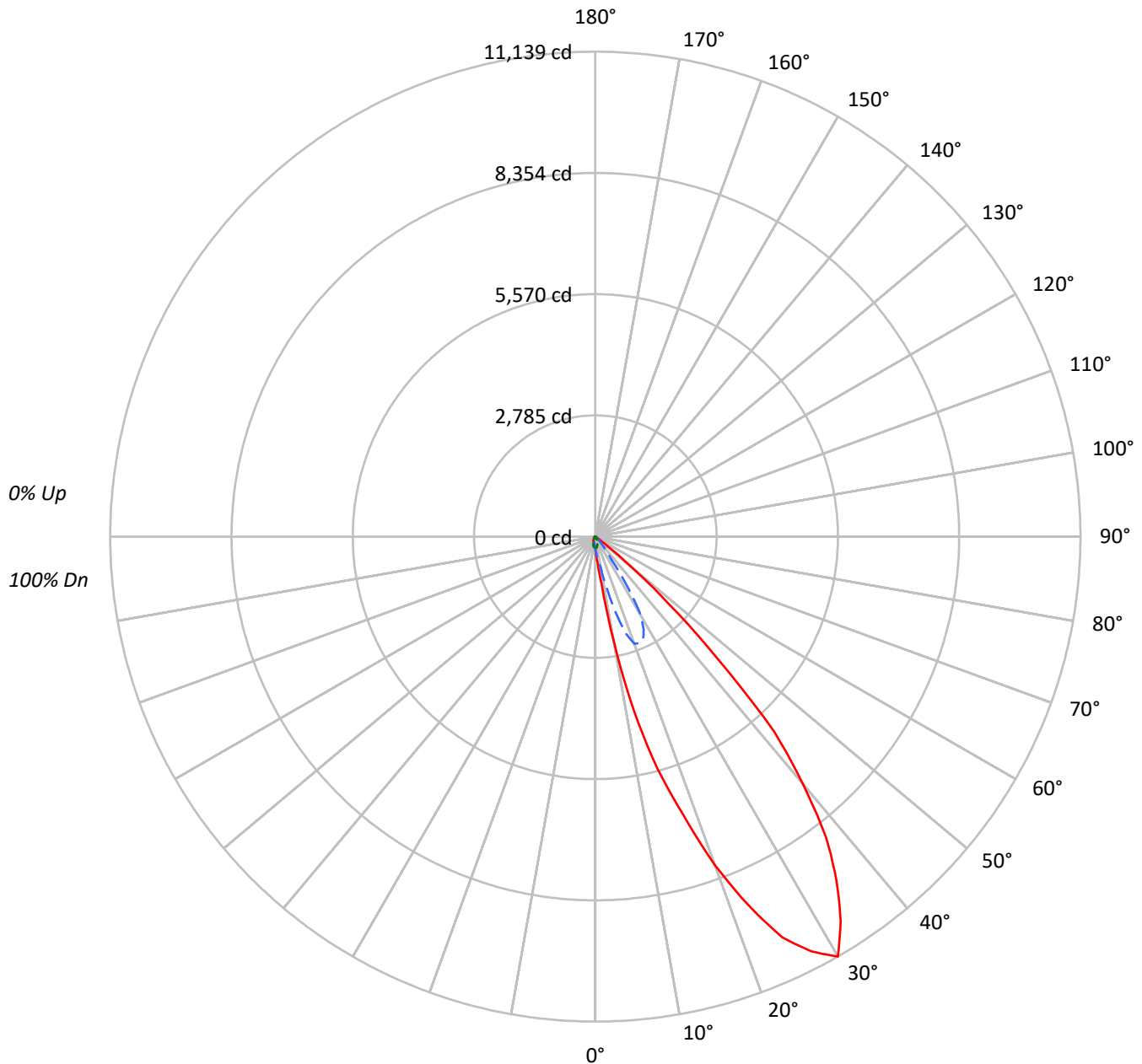
Lumens per Lamp: N/A
Luminaire Lumens: 2683.3 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.59 / 1.18
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	87	77	70	64	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27144	27144	27144
5°	60078	25683	18039
10°	240514	22300	15070
15°	554389	17732	13239
20°	827576	12577	11814
25°	1085470	8380	10518
30°	1246021	5291	9195
35°	1142480	3394	7947
40°	936893	2200	6778
45°	543160	1534	5466
50°	153922	1130	4506
55°	14103	1047	3783
60°	2170	1201	3139
65°	573	1146	2269
70°	708	1416	1756
75°	936	1871	1871
80°	0	2789	1395
85°	0	5558	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.5
10°-20°	356.9	13.3
20°-30°	869.4	32.4
30°-40°	942.3	35.1
40°-50°	426.9	15.9
50°-60°	33.0	1.2
60°-70°	6.8	0.3
70°-80°	5.0	0.2
80°-90°	3.2	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°	1266.1	47.2
0°-40°	2208.4	82.3
0°-60°	2668.3	99.4
0°-90°	2683.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	280	280	280	280	280	
5°	618	456	264	199	186	111
15°	5528	1809	177	128	132	1606
25°	10155	2597	78	77	98	4629
35°	9660	660	29	45	67	5942
45°	3965	84	11	25	40	3130
55°	84	11	6	15	22	191
65°	2	4	5	10	10	4
75°	2	4	5	8	5	2
85°	0	4	5	4	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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	419.8	412.2	416.1	406.0	399.8	394.8	397.3	394.8	378.7	374.9	362.5
5°	617.8	606.6	606.6	585.5	563.0	549.3	549.3	533.1	498.2	482.1	455.8
7.5°	1107.3	1084.9	1066.2	1000.2	914.3	865.7	853.1	784.7	696.3	640.3	574.2
10°	2445.0	2351.5	2285.5	2113.7	1883.3	1740.0	1679.0	1442.3	1160.8	949.1	757.3
12.5°	4111.5	3984.5	3868.7	3587.2	3255.9	3030.4	2909.6	2560.8	2014.0	1622.9	1214.4
15°	5527.7	5390.7	5253.7	4911.2	4561.1	4365.6	4143.9	3681.9	2959.4	2403.8	1808.6
17.5°	6689.8	6612.6	6471.8	5969.9	5529.0	5223.8	4993.4	4389.3	3645.7	3011.7	2337.9
20°	8027.5	7837.0	7585.4	6976.3	6373.4	5991.0	5667.2	4931.1	4071.7	3343.0	2618.1
22.5°	9153.5	9017.7	8656.5	7853.2	6966.3	6640.0	6243.9	5358.3	4345.8	3483.8	2650.5
25°	10155.0	9942.0	9488.5	8533.2	7625.2	7069.7	6583.9	5590.0	4446.5	3493.7	2597.0
27.5°	10741.6	10463.8	9930.7	8889.5	7853.2	7239.1	6701.0	5629.9	4383.0	3361.7	2401.4
30°	11138.9	10585.8	9996.8	8893.2	7781.0	7153.1	6595.1	5429.3	4119.0	3060.3	2072.5
32.5°	10483.7	10163.7	9600.7	8539.4	7387.4	6774.5	6220.2	4994.6	3706.7	2613.1	1442.3
35°	9660.5	9401.4	8911.9	7858.1	6796.9	6219.0	5631.1	4436.6	3169.9	1796.0	660.1
37.5°	8703.8	8500.9	7974.0	7011.2	6077.0	5511.6	4922.4	3781.4	2232.0	890.6	401.0
40°	7408.5	7236.6	6804.4	6030.9	5170.2	4632.2	4089.1	2828.6	1211.9	497.0	261.6
42.5°	6089.5	5944.9	5551.4	4882.5	4126.5	3683.1	3204.8	1723.8	602.9	312.7	145.8
45°	3964.6	3783.9	3572.3	3265.8	2892.1	2619.3	2055.1	832.0	357.4	174.4	83.5
47.5°	2273.1	2153.6	1806.1	1424.9	1157.1	1056.2	768.5	387.4	196.8	100.9	51.1
50°	1021.3	944.1	792.1	645.2	467.0	365.0	310.2	194.4	97.2	54.8	34.9
52.5°	251.7	256.6	242.8	213.0	189.3	160.7	139.6	91.0	51.1	33.7	22.4
55°	83.5	84.7	77.2	73.4	67.2	62.3	57.3	41.1	31.2	29.9	11.2
57.5°	29.9	29.9	31.2	28.7	27.3	26.1	24.9	21.1	18.6	11.2	6.2
60°	11.2	11.2	11.2	12.4	12.4	12.4	13.7	12.4	8.7	6.2	5.0
62.5°	5.0	5.0	5.0	5.0	6.2	6.2	7.5	6.2	5.0	5.0	3.7
65°	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7
80°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7
82.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	350.0	342.5	327.6	316.4	307.7	306.5	298.9	286.5	281.5	272.8	265.3
5°	431.0	412.2	388.6	366.2	350.0	341.3	315.2	291.4	277.8	264.1	251.7
7.5°	518.1	475.8	434.7	398.6	376.2	362.5	331.3	292.7	267.8	247.8	231.6
10°	627.7	540.6	469.5	413.5	383.6	365.0	327.6	281.5	250.4	226.7	210.5
12.5°	878.1	640.3	501.9	421.0	383.6	357.4	312.7	266.6	231.6	203.1	185.5
15°	1306.6	894.3	595.4	424.8	371.2	341.3	290.2	241.6	206.8	176.8	160.7
17.5°	1710.1	1177.0	743.5	450.9	363.7	317.6	260.4	213.0	176.8	148.3	134.5
20°	1919.4	1317.8	825.8	470.9	351.2	287.7	225.4	181.8	147.0	122.0	110.9
22.5°	1924.4	1305.4	785.9	424.8	305.2	246.6	193.0	149.5	119.6	98.4	89.7
25°	1806.1	1154.6	646.5	331.3	246.6	206.8	160.7	122.0	93.5	78.4	72.2
27.5°	1583.1	934.2	477.1	239.1	193.0	164.4	125.8	93.5	71.0	61.0	57.3
30°	1224.4	577.9	264.1	176.8	145.8	123.3	91.0	62.3	53.6	47.3	44.9
32.5°	607.8	282.7	186.8	125.8	99.7	78.4	57.3	46.1	41.1	37.4	36.2
35°	330.1	203.1	117.1	75.9	59.8	49.8	38.6	32.4	29.9	28.7	28.7
37.5°	230.4	120.8	71.0	46.1	37.4	33.7	27.3	23.6	22.4	22.4	22.4
40°	127.0	72.2	43.6	29.9	24.9	22.4	18.6	17.4	17.4	17.4	18.6
42.5°	73.4	44.9	29.9	21.1	17.4	16.2	13.7	12.4	13.7	13.7	14.9
45°	47.3	33.7	19.9	14.9	12.4	11.2	9.9	9.9	11.2	11.2	12.4
47.5°	33.7	23.6	13.7	9.9	7.5	7.5	7.5	7.5	8.7	9.9	11.2
50°	19.9	12.4	7.5	6.2	5.0	5.0	5.0	6.2	7.5	7.5	8.7
52.5°	11.2	7.5	5.0	5.0	3.7	3.7	5.0	5.0	6.2	7.5	8.7
55°	6.2	5.0	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2	7.5
57.5°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2	6.2
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2	6.2
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	6.2
65°	3.7	3.7	3.7	5.0	3.7	5.0	5.0	5.0	5.0	5.0	6.2
67.5°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2
70°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2
72.5°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2
75°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	262.8	254.1	247.8	245.3	240.4	241.6	237.9	235.4	227.9	227.9	222.9
5°	242.8	231.6	224.2	220.5	215.5	214.2	210.5	206.8	199.3	198.1	194.4
7.5°	221.7	210.5	201.8	198.1	193.0	191.8	186.8	184.3	178.1	176.8	173.1
10°	199.3	186.8	179.3	175.6	170.6	170.6	166.9	164.4	159.4	159.4	157.0
12.5°	175.6	164.4	159.4	154.5	152.0	152.0	149.5	147.0	143.3	144.5	143.3
15°	150.7	142.0	137.0	134.5	133.2	133.2	132.0	130.7	128.3	130.7	128.3
17.5°	127.0	120.8	117.1	115.8	114.6	114.6	114.6	115.8	114.6	117.1	117.1
20°	104.6	99.7	97.2	97.2	95.9	98.4	98.4	100.9	100.9	104.6	105.9
22.5°	86.0	82.2	80.9	80.9	80.9	83.5	84.7	87.2	88.5	92.2	94.7
25°	68.5	67.2	67.2	67.2	68.5	71.0	73.4	75.9	77.2	82.2	83.5
27.5°	56.0	54.8	56.0	56.0	57.3	61.0	63.5	66.0	68.5	72.2	74.7
30°	44.9	44.9	46.1	47.3	48.6	51.1	54.8	57.3	59.8	63.5	66.0
32.5°	36.2	37.4	38.6	39.9	39.9	43.6	46.1	49.8	51.1	54.8	57.3
35°	29.9	31.2	32.4	33.7	33.7	37.4	39.9	42.4	44.9	47.3	49.8
37.5°	23.6	24.9	27.3	28.7	28.7	32.4	33.7	36.2	38.6	41.1	43.6
40°	19.9	21.1	23.6	23.6	24.9	27.3	28.7	31.2	33.7	36.2	38.6
42.5°	16.2	17.4	19.9	21.1	21.1	23.6	24.9	27.3	28.7	31.2	32.4
45°	14.9	14.9	17.4	17.4	18.6	19.9	22.4	23.6	24.9	27.3	28.7
47.5°	12.4	13.7	14.9	16.2	16.2	17.4	18.6	19.9	21.1	23.6	24.9
50°	9.9	11.2	13.7	13.7	13.7	16.2	17.4	18.6	18.6	19.9	21.1
52.5°	9.9	9.9	11.2	12.4	12.4	13.7	14.9	16.2	16.2	17.4	18.6
55°	8.7	8.7	9.9	11.2	11.2	12.4	13.7	13.7	14.9	14.9	16.2
57.5°	7.5	8.7	9.9	9.9	9.9	11.2	12.4	12.4	13.7	13.7	14.9
60°	7.5	8.7	8.7	9.9	9.9	11.2	11.2	11.2	12.4	12.4	12.4
62.5°	7.5	7.5	8.7	8.7	8.7	9.9	9.9	11.2	11.2	11.2	11.2
65°	7.5	7.5	8.7	8.7	8.7	9.9	9.9	9.9	9.9	9.9	9.9
67.5°	6.2	7.5	7.5	7.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7
70°	6.2	6.2	7.5	7.5	7.5	8.7	8.7	8.7	8.7	8.7	8.7
72.5°	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
75°	6.2	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5	6.2	6.2
77.5°	5.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.0
80°	5.0	5.0	6.2	5.0	6.2	6.2	6.2	6.2	5.0	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	2.5	2.5
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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CATALOG NUMBER: LDSQA4A30930D010TE LAR25NF 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	220.5	222.9	220.5	222.9	216.7	219.2	221.7	215.5
5°	191.8	189.3	190.5	193.0	188.0	189.3	190.5	185.5
7.5°	171.9	173.1	170.6	173.1	169.4	170.6	171.9	168.1
10°	155.7	157.0	155.7	157.0	153.2	155.7	157.0	153.2
12.5°	140.8	143.3	142.0	144.5	140.8	143.3	145.8	140.8
15°	129.5	132.0	130.7	133.2	130.7	133.2	135.7	132.0
17.5°	118.3	120.8	120.8	123.3	122.0	124.5	127.0	123.3
20°	107.1	110.9	110.9	113.3	113.3	114.6	118.3	114.6
22.5°	97.2	100.9	100.9	103.4	103.4	105.9	108.4	105.9
25°	86.0	91.0	92.2	94.7	94.7	97.2	100.9	98.4
27.5°	78.4	82.2	83.5	86.0	87.2	89.7	92.2	89.7
30°	68.5	73.4	74.7	77.2	78.4	82.2	83.5	82.2
32.5°	61.0	64.7	66.0	68.5	71.0	73.4	75.9	74.7
35°	53.6	57.3	58.5	61.0	62.3	66.0	68.5	67.2
37.5°	47.3	51.1	52.3	53.6	54.8	58.5	61.0	59.8
40°	41.1	43.6	44.9	47.3	48.6	51.1	53.6	53.6
42.5°	36.2	38.6	39.9	41.1	42.4	44.9	47.3	46.1
45°	31.2	33.7	34.9	36.2	37.4	38.6	41.1	39.9
47.5°	26.1	28.7	29.9	31.2	32.4	33.7	36.2	34.9
50°	22.4	24.9	24.9	26.1	27.3	28.7	31.2	29.9
52.5°	19.9	21.1	22.4	22.4	23.6	24.9	27.3	26.1
55°	17.4	18.6	18.6	19.9	19.9	21.1	22.4	22.4
57.5°	14.9	16.2	16.2	17.4	17.4	18.6	19.9	19.9
60°	13.7	13.7	14.9	14.9	14.9	16.2	16.2	16.2
62.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
65°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
67.5°	8.7	8.7	8.7	8.7	8.7	7.5	7.5	7.5
70°	7.5	7.5	7.5	7.5	7.5	6.2	6.2	6.2
72.5°	7.5	7.5	6.2	6.2	6.2	6.2	6.2	5.0
75°	6.2	6.2	6.2	6.2	5.0	5.0	5.0	5.0
77.5°	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7
80°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	2.5
82.5°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
87.5°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)