

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P879388

Luminaire Tested: **LD4C25D010 EU4259027 4LBDWWH**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P879388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259027 4LBLDWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

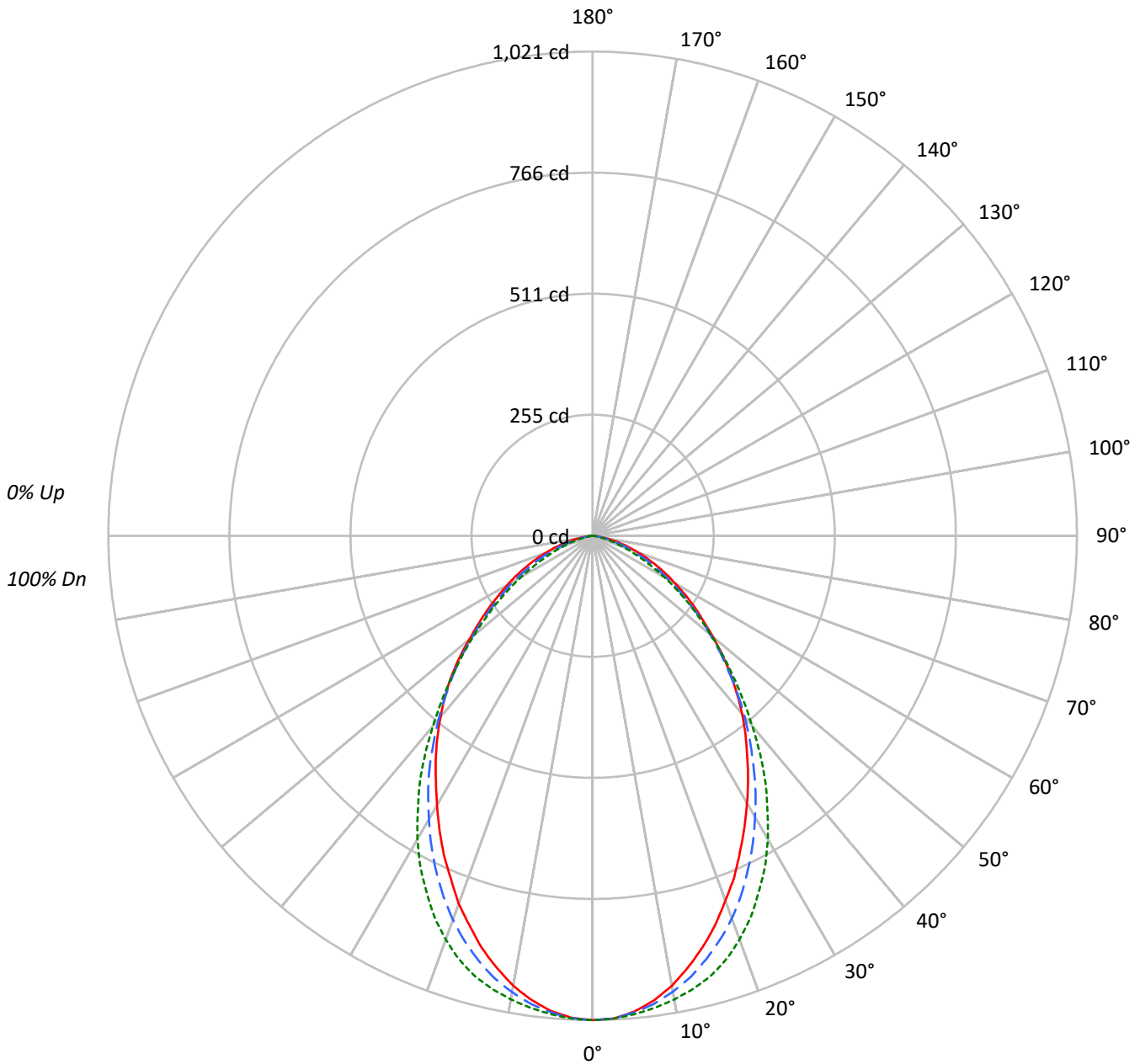
Lumens per Lamp: N/A
Luminaire Lumens: 1827.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	125483	125483	125483
5°	124211	124901	124075
10°	120170	123826	120220
15°	114176	122227	114558
20°	107009	118383	107898
25°	99659	112320	100581
30°	92322	104777	93017
35°	85172	95250	86476
40°	78567	83924	80010
45°	71164	72728	73319
50°	63091	62307	64677
55°	56246	52476	57531
60°	49215	42581	51058
65°	43081	32936	44593
70°	36243	24102	38147
75°	28290	15664	29904
80°	18607	8207	20446
85°	6343	3665	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	5.2
10°-20°	260.5	14.3
20°-30°	358.3	19.6
30°-40°	373.8	20.5
40°-50°	319.8	17.5
50°-60°	228.8	12.5
60°-70°	132.7	7.3
70°-80°	51.2	2.8
80°-90°	6.5	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°	714.2	39.1
0°-40°	1088.0	59.6
0°-60°	1636.6	89.6
0°-90°	1827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1021	1021	1021	1021	1021	
5°	1007	1009	1013	1009	1006	95
15°	898	925	961	928	901	252
25°	735	776	829	781	742	338
35°	568	590	635	600	577	356
45°	410	406	419	416	422	316
55°	263	250	245	256	269	235
65°	148	131	113	135	153	148
75°	60	45	33	47	63	64
85°	4	3	3	4	6	9
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°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1018.8	1018.1	1018.4	1018.4	1018.4	1018.1	1018.8	1018.8	1018.4	1018.4	1018.4
5°	1007.2	1006.4	1006.8	1007.2	1007.2	1007.2	1007.6	1007.9	1008.3	1008.7	1009.1
7.5°	988.4	987.3	988.4	989.9	989.9	990.3	990.7	991.1	992.2	994.1	995.2
10°	963.3	963.3	963.7	964.8	966.7	966.3	967.4	969.3	971.6	974.2	976.1
12.5°	931.4	932.2	933.3	934.4	936.3	937.4	939.3	941.5	945.3	949.0	953.2
15°	897.7	898.0	898.4	901.0	902.9	905.5	907.0	911.5	914.9	920.2	924.7
17.5°	859.8	859.4	860.5	862.8	867.3	868.4	870.3	875.1	880.0	887.2	893.2
20°	818.5	820.8	822.3	825.3	827.9	830.9	832.4	838.4	844.0	850.8	858.6
22.5°	779.5	777.6	780.2	783.6	785.9	788.1	790.7	797.1	803.1	811.4	819.3
25°	735.2	736.4	738.2	740.9	743.9	746.9	749.9	756.6	760.0	768.6	775.7
27.5°	693.2	695.1	695.8	699.2	701.8	704.1	705.6	713.5	716.5	724.0	731.1
30°	650.8	652.7	652.7	656.5	658.3	660.6	664.3	669.6	674.1	679.3	684.6
32.5°	609.9	609.9	611.4	614.8	616.7	619.3	620.4	624.2	628.7	633.9	639.6
35°	567.9	569.1	570.6	570.6	573.9	575.4	576.9	580.7	583.7	585.9	590.4
37.5°	529.3	529.3	528.2	530.0	532.3	531.9	534.2	536.0	537.9	540.5	544.3
40°	489.9	489.9	488.4	489.5	491.0	490.7	489.9	491.8	493.3	495.2	498.9
42.5°	449.8	449.0	448.6	448.6	449.4	448.6	449.4	449.8	449.8	449.8	452.0
45°	409.6	411.5	409.3	408.5	407.4	406.3	405.9	406.3	407.8	405.9	406.3
47.5°	370.2	371.0	369.5	368.4	367.2	366.5	367.2	365.0	365.7	366.1	364.6
50°	330.1	328.6	328.6	327.5	327.9	327.5	326.7	326.0	326.0	324.1	323.0
52.5°	293.0	293.7	294.5	291.8	292.2	290.3	290.7	288.8	288.8	286.6	287.3
55°	262.6	261.5	261.5	260.3	260.0	258.1	257.7	256.6	254.0	252.5	249.5
57.5°	231.1	230.7	229.2	229.6	227.3	226.9	226.2	224.3	222.4	220.6	217.2
60°	200.3	200.7	200.7	199.9	198.8	196.9	197.3	194.7	192.1	188.7	185.7
62.5°	174.8	173.7	173.3	172.6	170.3	170.3	168.4	166.6	163.9	160.6	157.9
65°	148.2	148.5	147.4	146.3	144.0	143.7	142.2	140.7	138.0	134.7	130.9
67.5°	124.2	123.4	123.0	121.9	119.7	119.3	118.2	114.8	112.5	109.2	106.2
70°	100.9	100.2	100.5	98.7	96.4	95.3	94.9	92.3	88.9	86.3	83.3
72.5°	79.1	79.1	78.8	76.9	75.8	75.0	73.5	70.5	68.6	65.6	63.4
75°	59.6	59.3	58.5	57.4	55.9	55.1	54.4	52.5	49.9	46.5	44.6
77.5°	41.3	41.6	40.9	40.5	38.6	37.5	37.1	36.0	33.8	31.5	29.6
80°	26.3	25.9	25.5	24.8	24.4	24.0	22.9	22.1	19.9	18.8	17.6
82.5°	14.3	13.5	13.5	13.1	12.4	12.0	11.6	10.9	10.5	9.8	9.0
85°	4.5	4.9	4.5	4.5	4.5	4.1	4.1	4.1	3.8	3.8	3.4
87.5°	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8
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°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1018.4	1018.8	1018.8	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
5°	1010.2	1010.2	1010.9	1011.7	1011.7	1011.7	1012.1	1012.8	1012.8	1012.8	1012.4
7.5°	996.7	998.2	999.7	1001.2	1001.6	1001.9	1002.7	1004.2	1004.2	1004.2	1004.2
10°	979.1	982.4	984.3	986.6	987.7	988.4	990.7	991.1	992.2	992.6	992.2
12.5°	956.5	961.0	965.2	968.9	970.4	971.9	974.2	976.4	977.6	978.7	978.3
15°	931.4	936.3	942.7	946.8	949.8	952.0	955.4	958.4	960.3	961.0	961.0
17.5°	901.0	907.0	913.8	920.5	922.4	926.2	929.9	934.0	936.3	936.7	936.3
20°	867.3	874.0	879.6	886.4	890.5	892.4	897.7	902.9	905.2	905.5	905.2
22.5°	827.1	833.5	841.0	848.1	851.5	854.9	860.5	865.8	868.8	871.0	868.8
25°	782.5	791.5	798.6	804.6	809.5	812.9	820.0	824.1	829.0	828.6	829.0
27.5°	738.6	746.1	754.0	761.1	764.1	767.9	773.5	780.2	784.4	787.0	786.6
30°	693.6	699.6	706.3	712.7	717.6	720.6	728.9	731.9	737.1	738.6	737.5
32.5°	646.0	650.1	656.8	665.5	667.3	670.3	675.6	683.1	685.0	685.7	686.1
35°	595.3	603.2	608.8	614.1	615.6	618.2	624.2	629.8	631.7	635.1	633.6
37.5°	548.4	552.9	555.5	560.8	565.3	567.6	570.6	574.3	578.1	579.6	579.2
40°	501.5	503.8	506.0	511.7	512.0	512.0	516.5	521.8	521.8	523.3	523.3
42.5°	453.5	453.9	456.9	459.9	460.6	461.4	465.9	466.6	468.9	470.0	471.5
45°	407.0	409.3	411.1	411.5	413.4	413.8	414.9	416.0	419.4	418.6	419.4
47.5°	364.6	365.7	366.9	366.9	368.0	367.6	369.5	368.4	370.6	371.4	372.5
50°	323.0	324.9	323.7	324.5	324.1	325.2	324.5	324.5	324.5	326.0	327.1
52.5°	284.7	285.1	284.0	284.3	284.3	283.6	284.3	284.0	283.6	283.6	284.0
55°	249.5	248.0	247.2	245.7	243.8	246.1	245.0	244.2	245.7	245.0	245.7
57.5°	215.3	213.4	211.9	211.2	208.6	210.1	208.6	207.8	207.8	207.8	209.7
60°	183.1	181.2	179.3	177.1	176.7	175.9	175.2	173.3	173.7	173.3	174.1
62.5°	154.9	151.2	148.5	146.7	146.3	145.2	144.0	142.2	142.5	142.5	142.9
65°	129.0	124.9	121.2	118.5	118.5	116.7	114.8	114.8	112.5	113.3	113.7
67.5°	103.2	99.8	96.0	94.2	93.0	91.5	90.4	89.7	88.5	88.5	89.3
70°	79.9	76.5	74.6	71.6	71.3	70.1	68.6	67.5	67.1	67.1	66.8
72.5°	60.4	57.4	55.1	53.3	52.1	51.0	49.5	49.1	48.4	48.4	49.1
75°	42.0	40.1	38.3	36.4	35.6	35.3	34.1	33.4	33.4	33.0	33.4
77.5°	28.1	26.3	24.4	23.6	22.9	22.1	21.8	21.4	20.3	20.3	20.3
80°	16.1	15.4	14.6	13.5	13.5	13.1	12.4	12.0	11.6	11.6	11.6
82.5°	8.3	7.9	7.1	6.8	6.8	6.8	6.4	6.4	6.0	6.0	6.0
85°	3.4	3.0	2.6	2.6	2.6	2.6	2.6	2.6	3.0	2.6	3.0
87.5°	0.4	0.8	0.8	0.8	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	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°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1019.2	1018.8	1018.8	1018.8	1018.8	1018.8	1018.4	1018.4	1018.1	1018.1	1018.1
5°	1012.8	1012.4	1012.1	1011.7	1011.3	1010.9	1010.6	1010.2	1009.1	1008.7	1007.9
7.5°	1003.8	1003.1	1001.9	1001.6	1000.8	999.7	998.2	997.4	995.9	994.1	993.3
10°	991.8	990.3	989.2	987.3	986.9	985.4	981.7	979.8	977.2	974.9	972.3
12.5°	977.2	975.7	973.1	970.4	968.9	965.6	962.2	959.2	955.8	950.9	947.2
15°	959.2	956.9	951.7	950.9	948.7	943.4	938.9	933.3	928.0	922.8	918.3
17.5°	935.2	930.3	927.7	924.3	921.7	914.9	910.0	903.7	896.5	890.5	884.2
20°	903.7	898.4	893.9	892.0	888.7	882.7	876.6	868.8	861.6	854.1	848.5
22.5°	866.1	862.8	856.0	853.8	849.6	843.6	836.5	829.0	822.3	814.0	806.5
25°	826.0	821.1	815.9	811.4	808.4	802.8	793.7	788.1	780.6	771.6	766.0
27.5°	783.2	777.6	770.1	767.1	764.5	757.0	749.5	742.4	736.4	728.5	723.6
30°	733.7	729.6	724.7	721.0	717.2	711.2	704.5	696.2	689.8	686.1	679.3
32.5°	683.5	680.1	673.7	671.8	667.7	662.8	658.0	652.0	645.2	639.6	634.3
35°	629.8	626.4	621.9	618.6	617.1	613.7	608.4	603.2	599.8	593.4	590.8
37.5°	576.2	575.1	570.6	567.2	566.1	561.9	559.3	555.5	550.7	549.2	546.2
40°	521.0	520.3	517.7	517.3	515.0	513.9	510.2	507.2	504.9	503.8	501.9
42.5°	470.4	469.6	467.4	467.8	465.5	464.8	464.4	461.8	459.9	457.6	458.0
45°	420.5	419.8	418.3	417.5	418.6	418.3	417.5	416.4	416.4	416.8	415.6
47.5°	372.5	373.2	371.7	372.5	372.5	371.4	371.4	372.9	373.2	374.0	374.7
50°	327.1	329.4	328.6	329.7	330.1	330.5	329.4	331.2	330.9	334.2	333.5
52.5°	285.8	286.2	287.7	288.1	288.5	288.8	290.7	292.2	292.6	294.1	296.7
55°	246.1	246.5	249.5	249.5	251.3	251.7	254.3	255.1	256.2	260.3	261.1
57.5°	208.6	210.8	212.3	213.1	214.2	216.1	217.6	220.9	222.8	225.4	228.1
60°	174.8	177.4	179.3	180.1	181.6	183.8	185.7	189.4	192.8	195.8	197.7
62.5°	143.7	145.9	147.4	150.0	150.0	151.9	156.4	158.7	162.4	165.1	168.4
65°	115.9	117.4	120.0	120.0	121.5	124.5	128.3	131.7	135.4	139.2	142.5
67.5°	90.8	91.9	93.4	94.9	95.7	99.4	102.4	107.3	110.7	113.3	117.4
70°	68.6	69.4	71.3	72.8	73.9	76.5	79.9	83.3	86.7	89.7	93.8
72.5°	49.1	50.6	52.5	53.6	54.4	56.3	59.6	63.0	66.0	69.0	71.3
75°	33.8	34.9	35.6	36.8	37.9	39.4	41.6	43.9	47.3	50.3	52.9
77.5°	21.0	22.1	23.3	23.6	24.0	25.5	27.0	29.3	31.5	33.8	35.6
80°	12.4	12.8	13.1	13.5	14.3	15.4	16.1	17.6	19.1	20.6	22.5
82.5°	6.4	6.8	7.1	7.1	7.1	7.5	8.6	9.4	9.8	10.5	11.6
85°	2.6	2.6	2.6	3.0	3.0	3.4	3.4	3.8	3.8	4.1	4.5
87.5°	0.8	0.8	0.8	0.8	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	0.0	0.0	0.0



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CATALOG NUMBER: LD4C25D010 EU4259027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1017.7	1017.7	1017.7	1017.3	1017.7	1017.7	1017.7	1017.3
5°	1007.9	1007.2	1007.2	1006.8	1006.4	1006.4	1006.8	1006.1
7.5°	991.8	990.7	989.9	989.9	989.6	989.2	989.2	987.3
10°	970.8	968.6	968.6	967.8	964.8	964.4	963.7	963.7
12.5°	944.5	941.9	940.4	938.5	936.7	935.2	934.8	933.3
15°	913.4	910.0	907.4	906.7	903.7	901.4	901.4	900.7
17.5°	879.6	874.4	872.5	870.6	866.5	866.1	865.4	862.0
20°	841.4	836.5	833.9	832.0	829.4	825.6	824.9	825.3
22.5°	801.2	794.5	792.2	790.4	787.7	784.4	784.4	781.7
25°	759.6	753.6	751.4	749.1	745.0	743.5	741.6	742.0
27.5°	717.2	711.6	709.7	705.6	703.0	701.1	699.2	699.2
30°	673.0	670.0	667.0	666.6	661.3	659.1	657.2	655.7
32.5°	630.2	626.4	624.9	623.4	620.8	617.8	617.4	614.8
35°	588.2	584.4	582.6	581.1	578.1	576.9	575.8	576.6
37.5°	543.9	543.2	542.0	540.2	538.3	537.9	536.4	538.3
40°	500.4	500.0	498.5	498.9	498.9	498.2	498.9	498.9
42.5°	458.4	458.4	456.9	457.6	458.0	458.8	459.9	460.6
45°	417.5	417.1	417.5	418.3	417.5	419.4	420.9	422.0
47.5°	375.5	375.9	377.4	377.7	378.5	381.1	381.1	381.1
50°	335.4	337.2	336.5	338.7	338.4	339.9	338.4	338.4
52.5°	297.1	299.0	299.3	299.7	302.0	302.3	302.3	302.0
55°	263.0	265.6	264.5	266.3	267.5	268.2	269.3	268.6
57.5°	231.4	232.6	233.7	234.1	235.6	236.3	237.1	236.3
60°	200.3	202.6	204.4	204.8	205.6	206.3	206.7	207.8
62.5°	171.1	174.8	175.6	175.9	177.8	178.9	179.7	180.4
65°	145.2	147.8	149.7	150.8	152.3	152.3	153.4	153.4
67.5°	120.0	122.7	123.8	124.5	126.8	127.2	129.0	129.0
70°	97.2	99.0	99.8	100.9	103.2	104.7	105.4	106.2
72.5°	75.0	77.3	78.4	79.9	81.4	82.5	82.9	84.0
75°	54.8	58.1	58.5	60.0	61.1	62.6	63.4	63.0
77.5°	38.3	39.4	40.9	41.6	42.8	43.9	45.0	45.0
80°	23.6	25.1	25.5	25.9	27.4	28.1	28.9	28.9
82.5°	12.4	13.1	13.9	14.3	15.0	15.0	15.4	15.8
85°	4.9	5.3	5.3	5.3	5.6	6.0	6.0	6.0
87.5°	0.8	1.1	0.8	0.8	1.1	1.1	1.1	1.1
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)