

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: P245461

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

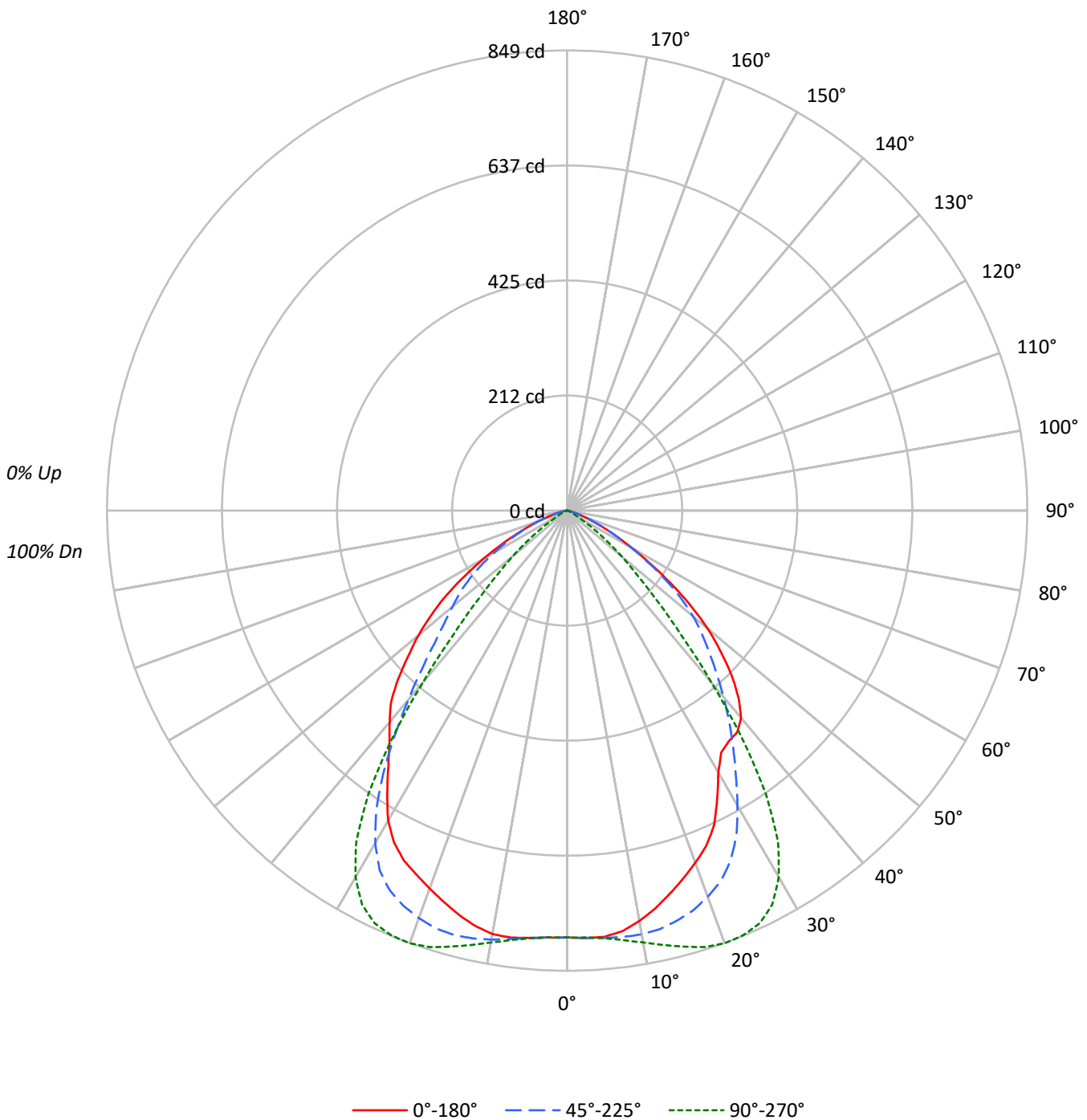
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	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	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24284	24284	24284
5°	24429	24519	24491
10°	24070	25338	24840
15°	23365	26593	24645
20°	22689	27873	24346
25°	21816	28587	24235
30°	19854	27802	23515
35°	19560	24089	21634
40°	20091	16709	20509
45°	18704	10100	19284
50°	16224	6236	17184
55°	12451	3258	14585
60°	8480	1314	11009
65°	5275	671	7596
70°	2867	415	4634
75°	1489	203	2740
80°	675	231	1492
85°	460	142	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	5.0
10°-20°	224.3	14.8
20°-30°	342.3	22.5
30°-40°	357.2	23.5
40°-50°	268.3	17.7
50°-60°	165.1	10.9
60°-70°	67.2	4.4
70°-80°	15.8	1.0
80°-90°	2.2	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°	642.3	42.3
0°-40°	999.5	65.8
0°-60°	1432.8	94.4
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	788	788	788	788	788	
5°	789	791	792	791	791	75
15°	732	783	833	810	772	206
25°	641	713	840	774	712	292
35°	520	534	640	592	575	328
45°	429	371	232	346	442	327
55°	232	220	61	220	271	208
65°	72	73	9	98	104	75
75°	12	12	2	22	23	15
85°	1	1	0	3	4	2
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°	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5
2.5°	789.6	788.3	789.6	789.6	790.0	789.2	789.6	790.0	789.2	789.2	789.2
5°	789.2	788.3	789.2	788.7	789.6	789.6	790.4	790.4	791.2	791.2	792.5
7.5°	782.5	780.8	782.5	783.7	784.6	786.2	788.3	790.0	791.7	793.3	795.4
10°	768.7	768.7	769.9	772.4	774.9	777.9	781.6	785.8	790.0	793.8	797.5
12.5°	751.5	750.3	752.8	756.1	759.9	764.5	770.4	776.6	783.3	790.8	796.7
15°	731.9	730.6	733.6	736.9	741.5	748.2	755.3	763.7	773.3	783.3	792.9
17.5°	711.8	711.4	714.3	718.9	722.7	729.8	739.0	749.0	759.9	773.3	785.8
20°	691.4	690.9	693.9	697.6	702.6	709.3	718.5	730.2	743.2	758.2	772.9
22.5°	670.0	670.5	673.0	677.1	681.3	688.4	698.0	709.7	724.0	740.3	756.6
25°	641.2	639.1	642.4	646.6	653.7	659.6	668.8	681.3	695.9	713.1	732.3
27.5°	599.4	599.0	601.9	605.7	611.9	619.0	629.1	642.0	657.5	676.3	695.1
30°	557.6	558.4	559.7	563.5	567.6	574.7	584.8	595.6	610.3	628.2	648.3
32.5°	529.2	529.2	530.8	533.4	536.3	540.0	547.1	555.1	566.4	578.9	593.5
35°	519.6	517.9	519.6	520.0	520.4	521.2	522.5	525.0	528.8	534.2	539.6
37.5°	515.4	514.1	514.1	512.5	510.4	507.9	504.5	500.7	496.6	491.1	487.0
40°	499.1	498.2	497.4	495.7	491.1	486.1	480.7	471.9	462.3	448.9	435.5
42.5°	467.7	466.9	466.5	463.1	458.9	453.1	446.8	437.6	425.5	408.4	389.1
45°	428.9	427.2	425.9	423.0	420.1	415.1	409.2	400.8	388.7	371.2	348.2
47.5°	383.7	382.9	382.5	381.2	378.3	375.3	371.6	364.9	354.0	337.3	313.5
50°	338.2	336.5	337.3	336.9	335.6	333.6	331.0	326.5	318.1	303.0	281.3
52.5°	285.9	285.9	285.5	286.7	287.2	286.7	287.2	282.1	275.0	263.7	245.4
55°	231.6	231.6	232.8	234.5	236.2	236.6	236.2	234.1	229.1	219.9	203.6
57.5°	180.6	179.7	182.2	184.7	186.4	188.1	186.8	185.2	182.2	174.7	162.2
60°	137.5	137.5	139.2	140.9	142.5	144.2	143.8	143.4	140.9	135.8	125.8
62.5°	101.1	101.6	101.6	102.8	104.5	106.2	107.4	106.2	104.9	101.6	94.9
65°	72.3	71.9	72.3	73.6	74.8	76.5	77.3	76.9	75.7	73.1	68.1
67.5°	48.5	48.1	49.7	50.2	51.0	52.7	52.3	52.7	52.3	50.2	46.0
70°	31.8	30.9	31.8	31.3	32.6	33.0	33.9	34.3	33.9	32.6	31.3
72.5°	19.6	19.2	19.6	20.1	20.5	20.9	21.7	21.7	21.3	20.5	18.8
75°	12.5	11.3	11.7	10.9	11.7	11.7	12.5	13.0	12.5	12.5	11.7
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.9	8.4	7.5	7.1
80°	3.8	3.8	4.2	4.2	4.2	4.6	4.2	4.2	4.2	4.6	3.3
82.5°	2.9	2.5	2.5	2.5	2.9	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.7	1.3	0.8	1.3	1.3	1.7	1.3	1.3	1.3	1.7
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.8	0.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5
2.5°	789.6	788.7	788.7	788.3	789.2	788.3	788.7	788.3	788.3	789.2	788.3
5°	792.5	792.9	792.1	791.7	792.9	792.9	792.9	792.1	792.1	792.5	792.1
7.5°	796.7	797.5	797.9	798.4	799.2	799.6	799.6	799.2	798.8	800.0	798.4
10°	801.3	802.5	805.0	806.3	808.4	808.4	809.2	809.2	808.4	809.2	808.8
12.5°	799.6	807.1	811.3	814.2	817.2	819.7	820.5	820.9	820.5	822.2	820.5
15°	802.5	808.8	815.5	820.5	825.9	828.9	829.7	833.0	833.9	834.3	831.8
17.5°	797.9	809.2	816.3	823.9	831.8	837.2	842.2	844.3	844.8	845.6	842.2
20°	787.5	800.0	810.9	821.8	831.0	839.3	843.5	849.4	847.7	851.0	846.4
22.5°	773.3	787.5	801.3	815.5	825.1	835.1	843.9	848.1	850.2	850.2	845.2
25°	750.7	767.4	782.5	797.1	811.7	823.9	833.9	840.2	841.4	841.0	835.1
27.5°	715.6	733.6	751.1	767.8	785.8	800.0	811.7	819.3	821.3	821.3	815.1
30°	667.1	686.3	703.5	723.5	741.9	757.8	774.1	780.8	784.6	784.6	777.5
32.5°	609.4	625.7	641.6	661.3	681.3	699.3	714.8	724.0	728.6	728.1	721.9
35°	546.7	554.7	566.8	581.4	599.4	616.1	631.2	639.9	647.9	647.5	641.6
37.5°	484.0	481.9	483.2	488.6	499.9	511.6	523.3	531.7	538.4	541.3	540.0
40°	422.6	411.7	401.3	397.5	398.3	402.5	408.8	415.1	422.6	426.4	428.0
42.5°	367.4	349.0	330.6	316.8	308.9	306.4	309.3	311.4	316.0	321.4	326.9
45°	323.1	298.4	274.2	252.9	239.5	231.6	229.9	231.6	234.1	239.5	246.6
47.5°	286.7	257.9	230.7	206.9	187.3	176.8	173.9	173.0	175.6	180.6	190.2
50°	254.6	225.7	195.6	168.0	147.6	135.8	131.7	130.0	132.9	136.7	145.5
52.5°	219.4	191.0	160.1	133.3	112.0	99.9	95.3	92.8	94.5	99.5	108.3
55°	181.4	155.1	127.1	99.5	79.0	67.7	62.3	60.6	62.3	67.7	76.5
57.5°	143.4	121.2	97.8	71.9	53.5	42.2	36.8	35.1	39.7	41.8	51.0
60°	112.0	94.1	74.0	52.7	36.8	28.0	22.6	21.3	23.4	27.2	34.7
62.5°	84.0	72.7	56.8	37.6	27.2	18.0	15.0	13.8	15.0	18.0	23.8
65°	61.0	52.3	39.7	27.6	18.4	13.4	10.0	9.2	10.5	12.5	17.6
67.5°	41.8	35.1	27.6	19.2	12.5	8.4	7.1	7.1	7.5	9.2	13.0
70°	27.2	23.0	17.6	12.5	8.4	6.3	5.4	4.6	5.4	6.7	8.8
72.5°	17.1	14.6	11.3	8.8	6.3	4.6	3.8	3.3	4.2	5.0	6.7
75°	10.5	7.9	5.9	4.6	3.3	3.3	3.3	1.7	2.1	3.3	4.2
77.5°	6.3	5.4	4.6	3.8	2.9	1.7	1.7	1.7	2.1	2.5	3.8
80°	3.3	2.9	2.1	2.1	1.7	1.3	1.7	1.3	0.8	2.1	2.5
82.5°	2.1	1.7	1.7	1.7	2.1	0.8	1.3	0.8	1.3	1.7	1.3
85°	1.3	1.3	1.3	0.8	2.1	0.8	0.8	0.4	0.4	0.8	0.8
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5	787.5
2.5°	788.7	788.3	788.7	788.3	788.3	788.3	788.7	788.7	788.3	788.3	789.2
5°	792.1	792.1	792.1	791.7	791.2	791.2	792.1	792.1	790.8	792.1	792.1
7.5°	799.2	797.9	799.2	797.5	796.7	797.1	797.5	796.7	795.9	796.3	796.3
10°	808.4	807.1	807.1	805.9	804.6	803.8	803.0	800.9	798.8	798.4	796.7
12.5°	819.3	817.2	815.9	813.4	811.3	808.4	805.9	802.5	798.4	795.4	792.5
15°	830.1	826.8	823.9	819.7	815.1	810.1	804.6	799.2	792.5	786.7	781.6
17.5°	838.9	834.3	828.9	822.2	815.5	808.0	800.0	792.1	782.5	774.9	769.1
20°	841.8	835.1	828.0	819.3	810.5	800.0	790.0	779.5	768.7	760.7	754.1
22.5°	838.1	830.1	821.3	812.2	800.4	789.2	777.5	765.3	755.7	744.9	738.6
25°	827.6	818.0	808.4	797.5	786.2	773.7	761.2	748.6	736.9	731.1	723.1
27.5°	806.3	795.9	785.4	774.1	761.2	748.6	735.7	723.5	713.5	705.6	701.0
30°	768.7	756.6	744.4	732.3	721.0	708.1	695.9	685.9	675.9	669.6	665.0
32.5°	711.0	700.1	688.0	676.3	665.9	655.0	645.0	636.2	629.1	624.9	621.5
35°	633.3	622.4	613.2	604.8	596.0	591.5	585.2	580.2	577.2	575.6	575.2
37.5°	535.4	529.2	526.2	524.6	522.9	521.7	522.5	524.6	526.2	529.2	532.5
40°	430.9	436.4	438.1	443.9	449.3	456.4	464.4	473.6	481.1	490.7	497.4
42.5°	335.6	345.7	357.4	369.9	383.3	396.3	412.1	426.8	440.1	452.3	462.7
45°	257.9	273.4	290.9	308.9	326.9	345.7	364.9	382.9	398.8	411.7	422.6
47.5°	201.1	218.2	240.8	262.9	284.7	306.8	328.1	346.9	360.3	372.8	382.5
50°	159.3	178.9	203.6	229.1	252.9	276.3	298.9	316.4	329.8	339.8	346.9
52.5°	123.3	146.7	171.8	198.5	224.0	249.5	270.4	286.7	297.6	306.4	311.8
55°	92.0	114.9	141.7	169.3	195.2	219.9	239.5	253.7	263.3	268.3	271.3
57.5°	66.5	87.4	114.1	141.7	165.1	188.5	204.4	217.4	222.8	225.7	227.0
60°	48.5	67.7	91.5	115.4	137.5	156.3	170.1	178.9	183.1	184.7	184.3
62.5°	35.5	52.3	72.7	92.8	110.8	126.2	137.1	142.9	145.0	145.9	144.6
65°	27.2	40.1	57.7	73.1	86.9	98.2	106.2	109.9	111.2	110.8	109.9
67.5°	20.1	30.1	43.1	54.8	64.8	73.6	77.7	81.1	81.9	80.7	79.4
70°	14.2	22.2	31.3	39.3	46.8	51.8	56.4	56.8	56.8	56.4	55.6
72.5°	10.0	15.5	21.3	26.8	31.3	35.1	36.8	38.0	37.6	37.2	36.4
75°	6.7	9.6	15.5	16.7	20.9	22.2	23.8	23.8	24.2	23.0	23.0
77.5°	4.2	6.7	9.2	10.9	12.5	14.2	15.0	15.0	15.5	15.0	15.0
80°	2.5	4.2	5.0	7.5	7.5	8.8	9.2	9.6	8.8	10.0	8.8
82.5°	1.7	2.5	3.8	3.8	4.6	5.4	5.4	5.9	5.9	5.4	5.4
85°	1.3	1.7	2.1	2.5	2.5	2.9	2.5	2.5	2.9	3.3	2.9
87.5°	0.4	0.8	0.4	0.8	0.8	1.7	1.3	1.3	1.3	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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CATALOG NUMBER: LSR8B15D010 EC8B15830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	787.5	787.5	787.5	787.5
2.5°	788.3	788.7	788.3	788.3
5°	792.1	791.7	792.1	791.2
7.5°	795.0	795.0	794.6	794.6
10°	795.0	793.3	793.3	793.3
12.5°	788.7	786.7	785.4	784.6
15°	777.9	774.1	772.4	772.0
17.5°	763.7	760.3	758.2	757.0
20°	747.4	744.0	741.5	741.9
22.5°	733.1	729.4	727.7	726.9
25°	718.9	714.3	713.1	712.3
27.5°	695.9	693.4	692.2	690.9
30°	660.8	659.6	657.5	660.4
32.5°	620.3	618.2	616.5	617.8
35°	575.6	574.3	575.6	574.7
37.5°	534.6	535.9	537.5	538.4
40°	502.4	507.0	508.7	509.5
42.5°	470.2	475.7	479.0	481.1
45°	430.5	436.0	439.7	442.2
47.5°	389.6	394.2	397.9	397.5
50°	352.4	354.9	356.5	358.2
52.5°	314.7	314.7	315.2	315.2
55°	272.1	271.3	270.9	271.3
57.5°	225.3	224.5	224.0	222.8
60°	182.7	180.2	178.5	178.5
62.5°	142.9	140.0	138.8	138.4
65°	107.4	107.0	104.5	104.1
67.5°	77.7	76.1	74.4	74.8
70°	54.8	52.3	52.3	51.4
72.5°	35.5	34.3	33.9	33.9
75°	22.2	22.2	21.3	23.0
77.5°	14.6	14.6	14.2	14.6
80°	8.8	8.8	8.8	8.4
82.5°	5.4	5.9	5.4	5.4
85°	2.9	3.3	2.5	3.8
87.5°	1.7	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0

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