

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: METALUX

Report Number: P#

Luminaire Tested: **8SKB1-LD5-16-W-RS-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SKB1-LD5-16-W-RS-UNV-L850-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

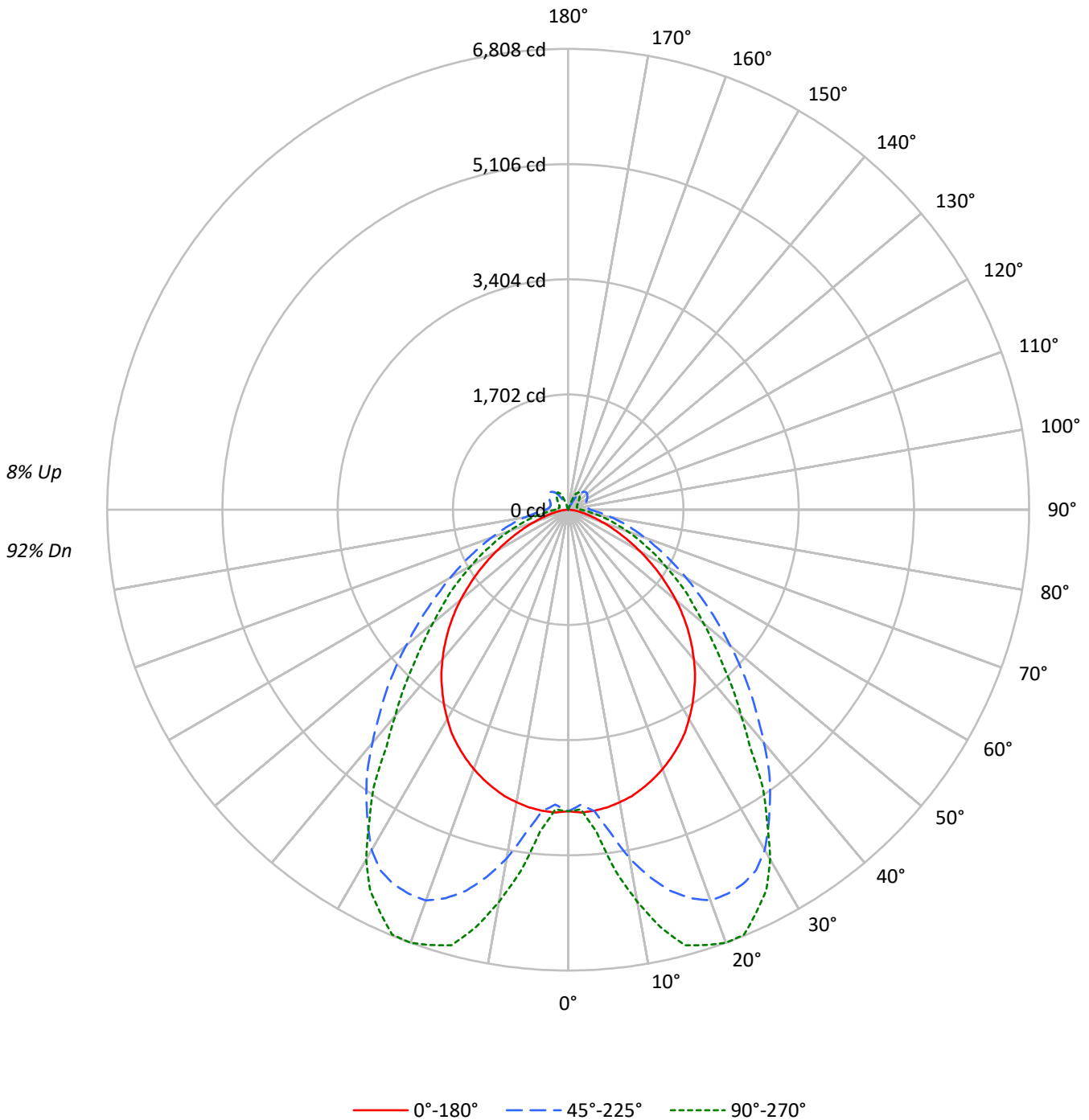
Lumens per Lamp: N/A
Luminaire Lumens: 16179.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 130.5
Input Voltage (V): 120
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	107	103	98	95	104	99	96	92	94	91	88	88	86	84	84	82	80	77
2	98	90	84	78	95	88	82	77	83	78	74	78	74	71	74	71	68	65
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	66	62	58	56
4	83	71	63	56	80	69	62	56	66	59	54	63	57	52	60	55	51	48
5	76	64	55	49	74	62	54	48	59	52	47	56	51	46	54	49	45	42
6	70	58	49	43	68	56	48	42	54	47	41	51	45	40	49	44	40	37
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23982	23982	23982
5°	24033	22483	23397
10°	23829	24873	26655
15°	23490	26437	28275
20°	23050	26865	27367
25°	22484	25951	25257
30°	21721	24190	22154
35°	20791	21398	18136
40°	19680	18445	14105
45°	18327	15647	11316
50°	16659	12993	9132
55°	14637	10692	7476
60°	12325	8758	5895
65°	9912	7104	4570
70°	7626	5678	3484
75°	5680	4484	2521
80°	3986	3454	1788
85°	2380	2605	1224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	2.8
10°-20°	1587.4	9.8
20°-30°	2613.4	16.2
30°-40°	2936.0	18.1
40°-50°	2612.7	16.1
50°-60°	2020.6	12.5
60°-70°	1372.1	8.5
70°-80°	818.8	5.1
80°-90°	439.2	2.7
90°-100°	289.0	1.8
100°-110°	245.1	1.5
110°-120°	226.8	1.4
120°-130°	211.3	1.3
130°-140°	179.2	1.1
140°-150°	122.4	0.8
150°-160°	47.3	0.3
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	4656.9	28.8
0°-40°	7592.9	46.9
0°-60°	12226.2	75.6
0°-90°	14856.4	91.8
90°-120°	761.0	4.7
90°-150°	1273.9	7.9
90°-180°	1323.0	8.2
0°-180°	16179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4456	4456	4456	4456	4456	
5°	4463	4401	4471	4710	4773	424
15°	4257	4782	5826	6554	6661	1200
25°	3851	4946	6104	6582	6567	1771
35°	3245	4454	5197	5149	5016	2028
45°	2496	3442	3805	3479	3221	1920
55°	1641	2345	2524	2290	2124	1466
65°	839	1458	1576	1420	1257	846
75°	310	878	900	776	649	340
85°	55	553	452	354	284	67
90°	4	470	330	240	186	5
95°	2	455	288	203	155	1
105°	2	413	267	173	133	1
115°	2	380	297	188	146	2
125°	2	312	345	230	179	2
135°	2	120	369	295	232	2
145°	2	11	286	334	288	1
155°	2	7	63	221	245	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0
2.5°	4477.9	4460.4	4429.8	4427.6	4407.9	4399.2	4401.4	4394.8	4388.3	4377.3	4359.9
5°	4462.6	4429.8	4379.5	4379.5	4390.5	4401.4	4427.6	4451.6	4458.2	4473.5	4471.3
7.5°	4434.2	4383.9	4335.8	4375.2	4414.5	4429.8	4460.4	4504.1	4571.8	4696.4	4818.8
10°	4388.3	4320.5	4305.2	4368.6	4421.0	4466.9	4536.9	4740.1	4928.1	5113.8	5234.0
12.5°	4335.8	4252.8	4274.6	4355.5	4477.9	4565.3	4744.5	5013.3	5161.9	5378.3	5555.3
15°	4257.1	4178.5	4217.8	4338.0	4593.7	4781.6	4882.2	5210.0	5448.2	5627.4	5826.3
17.5°	4171.9	4102.0	4156.6	4368.6	4716.1	4897.5	5059.2	5336.7	5566.2	5830.6	6018.6
20°	4077.9	4016.8	4086.7	4407.9	4775.1	4960.8	5140.0	5404.5	5708.2	5981.4	6143.1
22.5°	3968.7	3914.0	4021.1	4425.4	4796.9	4982.7	5157.5	5465.7	5780.4	6005.5	6143.1
25°	3850.7	3796.0	3942.4	4390.5	4775.1	4945.5	5133.5	5498.4	5756.3	5933.3	6103.8
27.5°	3723.9	3662.7	3883.4	4318.3	4687.7	4880.0	5092.0	5435.1	5638.3	5835.0	6007.6
30°	3568.7	3514.1	3780.7	4213.4	4565.3	4792.6	4974.0	5282.1	5476.6	5671.1	5804.4
32.5°	3413.6	3361.1	3656.2	4064.8	4425.4	4639.6	4814.4	5054.8	5275.5	5426.3	5509.4
35°	3245.3	3186.3	3511.9	3883.4	4268.1	4453.8	4600.3	4818.8	5004.5	5116.0	5196.9
37.5°	3077.0	3013.7	3328.4	3693.3	4060.5	4230.9	4353.3	4574.0	4716.1	4807.9	4875.6
40°	2886.9	2821.3	3138.2	3479.1	3844.1	3964.3	4091.1	4287.7	4392.6	4466.9	4499.7
42.5°	2694.6	2629.0	2932.8	3254.1	3579.7	3697.7	3828.8	3984.0	4086.7	4130.4	4130.4
45°	2495.7	2432.3	2720.8	3031.1	3306.5	3442.0	3557.8	3682.4	3767.6	3802.6	3804.8
47.5°	2288.1	2235.7	2511.0	2792.9	3050.8	3168.8	3258.4	3378.6	3452.9	3461.7	3459.5
50°	2076.1	2030.2	2277.2	2554.7	2784.2	2889.1	2967.8	3079.2	3138.2	3136.0	3125.1
52.5°	1853.2	1824.8	2054.3	2307.8	2515.4	2609.4	2679.3	2777.6	2825.7	2825.7	2817.0
55°	1641.2	1623.7	1822.6	2067.4	2261.9	2344.9	2410.5	2497.9	2537.2	2537.2	2524.1
57.5°	1427.1	1424.9	1610.6	1829.2	2014.9	2089.2	2159.2	2235.7	2270.6	2270.6	2248.8
60°	1217.3	1228.2	1411.8	1612.8	1783.3	1855.4	1916.6	1990.9	2012.7	2017.1	2012.7
62.5°	1022.8	1051.2	1226.0	1409.6	1580.0	1641.2	1695.9	1768.0	1785.5	1792.0	1781.1
65°	839.2	882.9	1059.9	1234.7	1394.3	1457.7	1505.7	1556.0	1571.3	1577.9	1575.7
67.5°	688.4	734.3	911.3	1084.0	1230.4	1280.6	1328.7	1372.4	1374.6	1385.5	1376.8
70°	533.2	603.2	780.2	944.1	1081.8	1127.7	1167.0	1197.6	1204.2	1206.3	1204.2
72.5°	410.9	493.9	662.2	823.9	948.5	992.2	1022.8	1046.8	1046.8	1049.0	1042.4
75°	310.3	410.9	574.8	723.4	834.8	878.5	902.6	917.9	909.1	906.9	900.4
77.5°	225.1	340.9	496.1	635.9	740.8	773.6	795.5	797.7	784.6	782.4	769.3
80°	155.2	277.5	428.3	559.5	655.6	688.4	699.3	690.6	679.7	666.5	649.1
82.5°	102.7	225.1	371.5	496.1	585.7	611.9	620.7	607.5	592.2	570.4	542.0
85°	54.6	181.4	323.4	443.6	528.9	552.9	557.3	533.2	509.2	480.8	452.4
87.5°	24.0	148.6	288.5	408.7	483.0	500.5	502.6	476.4	445.8	413.0	378.1
90°	4.4	126.8	266.6	382.4	454.6	469.9	469.9	434.9	404.3	369.3	330.0
92.5°	2.2	120.2	260.1	373.7	445.8	461.1	458.9	421.8	384.6	345.3	306.0
95°	2.2	104.9	244.8	365.0	439.3	454.6	452.4	413.0	373.7	332.2	288.5
97.5°	2.2	87.4	229.5	349.7	428.3	443.6	443.6	406.5	367.1	323.4	277.5
100°	0.0	67.7	212.0	334.4	413.0	432.7	434.9	399.9	358.4	314.7	271.0
102.5°	0.0	45.9	196.7	321.3	402.1	421.8	426.2	397.7	354.0	310.3	266.6
105°	2.2	28.4	177.0	306.0	391.2	413.0	419.6	395.6	351.8	310.3	266.6
107.5°	2.2	19.7	157.3	290.7	382.4	406.5	415.2	395.6	354.0	312.5	271.0
110°	2.2	17.5	133.3	275.4	371.5	397.7	410.9	397.7	358.4	319.1	277.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.2	13.1	100.5	255.7	358.4	389.0	406.5	399.9	365.0	325.6	286.3
115°	2.2	10.9	67.7	236.0	345.3	380.3	402.1	402.1	371.5	334.4	297.2
117.5°	2.2	10.9	45.9	209.8	330.0	369.3	393.4	404.3	380.3	343.1	310.3
120°	2.2	8.7	21.9	179.2	310.3	354.0	384.6	404.3	386.8	354.0	321.3
122.5°	2.2	8.7	17.5	137.7	288.5	336.6	371.5	402.1	393.4	362.8	334.4
125°	2.2	6.6	15.3	91.8	260.1	312.5	354.0	395.6	395.6	371.5	345.3
127.5°	2.2	6.6	13.1	65.6	222.9	286.3	330.0	384.6	395.6	378.1	356.2
130°	2.2	6.6	10.9	19.7	170.5	249.1	301.6	367.1	391.2	382.4	362.8
132.5°	2.2	4.4	10.9	15.3	109.3	194.5	262.2	338.7	378.1	382.4	369.3
135°	2.2	4.4	8.7	13.1	78.7	120.2	209.8	303.8	354.0	369.3	369.3
137.5°	2.2	4.4	8.7	10.9	35.0	89.6	131.1	262.2	323.4	351.8	358.4
140°	2.2	4.4	6.6	8.7	13.1	48.1	94.0	207.6	286.3	325.6	343.1
142.5°	2.2	4.4	6.6	8.7	10.9	10.9	56.8	120.2	240.4	290.7	319.1
145°	2.2	4.4	4.4	6.6	8.7	10.9	10.9	91.8	172.6	249.1	286.3
147.5°	2.2	2.2	4.4	6.6	8.7	8.7	8.7	41.5	102.7	190.1	244.8
150°	2.2	2.2	4.4	4.4	6.6	6.6	8.7	8.7	67.7	107.1	181.4
152.5°	2.2	2.2	4.4	4.4	6.6	6.6	6.6	8.7	8.7	72.1	100.5
155°	2.2	2.2	4.4	4.4	4.4	6.6	6.6	6.6	6.6	8.7	63.4
157.5°	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.7	8.7
160°	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6	8.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°
0°	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0	4456.0
2.5°	4381.7	4414.5	4414.5	4442.9	4458.2	4453.8	4458.2	4466.9	4440.7	4432.0
5°	4519.4	4585.0	4617.7	4692.0	4709.5	4742.3	4753.2	4790.4	4799.1	4772.9
7.5°	4952.1	5087.6	5175.0	5264.6	5303.9	5323.6	5358.6	5382.6	5419.8	5391.4
10°	5358.6	5522.5	5647.1	5745.4	5769.4	5789.1	5830.6	5889.6	5885.3	5880.9
12.5°	5710.4	5854.7	6007.6	6149.7	6221.8	6237.1	6298.3	6370.4	6383.5	6324.5
15°	6001.1	6202.1	6374.8	6525.6	6554.0	6593.3	6639.2	6663.3	6652.3	6661.1
17.5°	6243.7	6414.1	6536.5	6617.4	6634.9	6665.4	6707.0	6737.6	6741.9	6744.1
20°	6339.8	6453.5	6571.5	6682.9	6717.9	6748.5	6798.8	6825.0	6820.6	6807.5
22.5°	6322.3	6488.4	6597.7	6689.5	6724.5	6752.9	6796.6	6814.1	6807.5	6794.4
25°	6296.1	6438.2	6534.3	6582.4	6582.4	6604.3	6593.3	6580.2	6564.9	6567.1
27.5°	6171.5	6254.6	6320.2	6374.8	6381.3	6383.5	6377.0	6363.9	6355.1	6335.5
30°	5918.0	6018.6	6049.2	6044.8	6036.1	6033.9	6007.6	5988.0	5963.9	5966.1
32.5°	5620.8	5642.7	5655.8	5618.6	5596.8	5592.4	5568.4	5535.6	5502.8	5467.9
35°	5238.4	5223.1	5192.5	5166.3	5148.8	5122.6	5087.6	5054.8	5013.3	5015.5
37.5°	4869.1	4821.0	4777.3	4705.2	4692.0	4630.8	4563.1	4510.7	4442.9	4405.8
40°	4484.4	4436.3	4381.7	4303.0	4268.1	4211.3	4136.9	4049.5	3994.9	3973.0
42.5°	4117.3	4058.3	3994.9	3900.9	3857.2	3811.3	3732.7	3647.4	3608.1	3601.5
45°	3758.9	3691.1	3629.9	3525.0	3479.1	3424.5	3343.7	3291.2	3234.4	3221.3
47.5°	3413.6	3354.6	3260.6	3179.7	3136.0	3090.1	3007.1	2959.0	2917.5	2902.2
50°	3079.2	3022.4	2950.3	2860.7	2819.2	2775.4	2716.4	2670.6	2622.5	2607.2
52.5°	2779.8	2723.0	2648.7	2578.8	2537.2	2511.0	2456.4	2403.9	2366.8	2342.7
55°	2491.3	2438.9	2371.2	2305.6	2290.3	2255.3	2191.9	2146.1	2122.0	2124.2
57.5°	2226.9	2181.0	2128.6	2065.2	2041.2	2008.4	1966.9	1912.2	1883.8	1875.1
60°	1986.5	1942.8	1899.1	1851.0	1820.4	1796.4	1739.6	1695.9	1658.7	1654.3
62.5°	1757.1	1724.3	1687.1	1639.0	1612.8	1586.6	1536.3	1494.8	1466.4	1457.7
65°	1558.2	1529.8	1486.1	1446.7	1420.5	1394.3	1346.2	1304.7	1280.6	1256.6
67.5°	1361.5	1337.5	1304.7	1263.2	1239.1	1212.9	1171.4	1125.5	1097.1	1090.5
70°	1186.7	1160.4	1134.2	1090.5	1068.7	1053.4	1007.5	961.6	939.7	931.0
72.5°	1035.9	1007.5	970.3	939.7	926.6	898.2	854.5	823.9	795.5	778.0
75°	878.5	861.0	834.8	799.9	775.8	756.1	721.2	690.6	666.5	649.1
77.5°	749.6	727.7	705.9	670.9	653.4	635.9	598.8	572.6	548.5	539.8
80°	629.4	609.7	579.1	552.9	537.6	522.3	493.9	465.5	448.0	439.3
82.5°	520.1	502.6	478.6	456.7	439.3	428.3	402.1	378.1	362.8	349.7
85°	430.5	408.7	386.8	367.1	354.0	345.3	325.6	308.1	288.5	284.1
87.5°	354.0	336.6	316.9	297.2	288.5	277.5	260.1	246.9	231.7	225.1
90°	303.8	281.9	264.4	249.1	240.4	233.8	220.7	203.2	192.3	185.8
92.5°	275.4	255.7	240.4	225.1	218.5	212.0	196.7	183.6	172.6	163.9
95°	257.9	238.2	222.9	209.8	203.2	198.9	185.8	172.6	161.7	155.2
97.5°	244.8	222.9	207.6	196.7	190.1	185.8	174.8	163.9	153.0	146.4
100°	233.8	212.0	196.7	185.8	181.4	177.0	166.1	155.2	146.4	139.9
102.5°	229.5	205.4	190.1	181.4	177.0	172.6	161.7	153.0	142.1	135.5
105°	229.5	203.2	187.9	177.0	172.6	168.3	159.5	150.8	139.9	133.3
107.5°	233.8	205.4	187.9	179.2	174.8	170.5	159.5	150.8	139.9	133.3
110°	240.4	212.0	192.3	181.4	177.0	172.6	161.7	153.0	142.1	135.5



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-W-RS-UNV-L850-CD2-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	249.1	218.5	198.9	185.8	181.4	177.0	166.1	157.3	146.4	139.9
115°	260.1	227.3	207.6	192.3	187.9	183.6	172.6	161.7	153.0	146.4
117.5°	273.2	240.4	216.4	201.1	196.7	190.1	179.2	168.3	159.5	153.0
120°	286.3	255.7	229.5	212.0	205.4	198.9	187.9	177.0	166.1	159.5
122.5°	301.6	268.8	242.6	225.1	218.5	212.0	198.9	187.9	177.0	168.3
125°	316.9	286.3	257.9	238.2	229.5	222.9	209.8	196.7	187.9	179.2
127.5°	330.0	301.6	273.2	253.5	244.8	236.0	222.9	209.8	198.9	192.3
130°	340.9	316.9	290.7	268.8	260.1	253.5	236.0	222.9	212.0	205.4
132.5°	351.8	330.0	308.1	286.3	277.5	268.8	253.5	238.2	227.3	218.5
135°	358.4	340.9	323.4	303.8	295.0	284.1	268.8	253.5	240.4	231.7
137.5°	358.4	349.7	334.4	319.1	310.3	301.6	284.1	268.8	255.7	249.1
140°	347.5	349.7	343.1	332.2	323.4	316.9	301.6	284.1	271.0	264.4
142.5°	332.2	338.7	343.1	336.6	332.2	327.8	314.7	299.4	286.3	277.5
145°	308.1	321.3	330.0	336.6	334.4	332.2	321.3	310.3	297.2	288.5
147.5°	277.5	297.2	308.1	323.4	327.8	327.8	323.4	314.7	303.8	297.2
150°	233.8	262.2	281.9	297.2	303.8	312.5	312.5	306.0	299.4	292.8
152.5°	166.1	212.0	240.4	262.2	271.0	279.7	290.7	286.3	277.5	273.2
155°	94.0	115.8	174.8	209.8	220.7	231.7	249.1	253.5	251.3	244.8
157.5°	48.1	78.7	98.3	113.6	120.2	137.7	172.6	196.7	194.5	198.9
160°	10.9	13.1	37.2	69.9	78.7	83.0	91.8	98.3	98.3	94.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)