



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 IESNA:LM-63-2002
 [TESTLAB] Intertek
 [ISSUE DATE] August 3, 2017
 [MANUFAC] Prudential Lighting
 [LAMP CAT] QDF-33-LED35-HO-FWA-D9
 [LUMINAIRE] 3' x 3' x 5"H. LED FIXTURE
 [MORE] FLAT WHITE ACRYLIC LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10066
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	158
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.00 ft
Luminous Width (90-270)	3.00 ft
Luminous Height	0.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2433	2306	2415
55	2220	2064	2202
65	1943	1749	1925
75	1508	1299	1486
85	696	544	670

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724
2.5	2486.587	2489.076	2491.356	2489.399	2488.050	2489.399	2491.356	2489.076	2486.587	2489.076
5.0	2480.146	2479.120	2481.419	2479.177	2478.265	2479.177	2481.419	2479.120	2480.146	2479.120
7.5	2462.172	2464.072	2466.656	2463.198	2462.780	2463.198	2466.656	2464.072	2462.172	2464.072
10.0	2440.075	2442.146	2443.723	2442.127	2439.353	2442.127	2443.723	2442.146	2440.075	2442.146
12.5	2415.052	2415.280	2416.135	2413.798	2413.361	2413.798	2416.135	2415.280	2415.052	2415.280
15.0	2383.721	2382.809	2383.303	2381.650	2380.624	2381.650	2383.303	2382.809	2383.721	2382.809
17.5	2344.866	2345.588	2346.538	2344.790	2343.821	2344.790	2346.538	2345.588	2344.866	2345.588
20.0	2302.002	2302.952	2304.016	2301.527	2298.354	2301.527	2304.016	2302.952	2302.002	2302.952
22.5	2253.913	2255.737	2254.597	2251.975	2250.227	2251.975	2254.597	2255.737	2253.913	2255.737
25.0	2204.665	2203.734	2203.012	2200.789	2198.680	2200.789	2203.012	2203.734	2204.665	2203.734
27.5	2149.337	2146.259	2147.266	2144.359	2140.312	2144.359	2147.266	2146.259	2149.337	2146.259
30.0	2088.556	2087.359	2085.573	2082.077	2078.296	2082.077	2085.573	2087.359	2088.556	2087.359
32.5	2024.887	2023.196	2020.289	2017.629	2014.912	2017.629	2020.289	2023.196	2024.887	2023.196
35.0	1955.404	1951.946	1951.224	1947.120	1944.802	1947.120	1951.224	1951.946	1955.404	1951.946
37.5	1882.387	1879.423	1875.509	1872.564	1869.581	1872.564	1875.509	1879.423	1882.387	1879.423
40.0	1802.644	1800.820	1796.526	1794.588	1792.270	1794.588	1796.526	1800.820	1802.644	1800.820
42.5	1722.046	1719.975	1716.422	1714.009	1711.311	1714.009	1716.422	1719.975	1722.046	1719.975
45.0	1639.814	1637.667	1632.803	1629.516	1627.882	1629.516	1632.803	1637.667	1639.814	1637.667
47.5	1556.157	1551.255	1544.358	1542.173	1542.629	1542.173	1544.358	1551.255	1556.157	1551.255
50.0	1465.660	1461.233	1454.355	1453.101	1451.904	1453.101	1454.355	1461.233	1465.660	1461.233
52.5	1372.807	1367.240	1362.566	1362.262	1361.673	1362.262	1362.566	1367.240	1372.807	1367.240
55.0	1276.838	1273.874	1268.991	1267.148	1266.654	1267.148	1268.991	1273.874	1276.838	1273.874
57.5	1184.612	1179.558	1173.611	1172.262	1173.269	1172.262	1173.611	1179.558	1184.612	1179.558
60.0	1090.106	1084.083	1075.913	1075.476	1078.573	1075.476	1075.913	1084.083	1090.106	1084.083
62.5	992.465	984.105	978.690	977.607	981.578	977.607	978.690	984.105	992.465	984.105
65.0	891.936	884.051	879.206	881.106	883.728	881.106	879.206	884.051	891.936	884.051
67.5	792.281	783.769	780.482	780.083	785.346	780.083	780.482	783.769	792.281	783.769
70.0	692.683	685.919	681.549	680.599	685.596	680.599	681.549	685.919	692.683	685.919
72.5	591.584	585.523	582.540	582.996	582.540	582.996	582.540	585.523	591.584	585.523
75.0	496.052	489.706	487.768	486.647	488.585	486.647	487.768	489.706	496.052	489.706
77.5	401.375	395.523	393.623	390.963	393.509	390.963	393.623	395.523	401.375	395.523
80.0	309.947	306.394	302.784	302.157	300.504	302.157	302.784	306.394	309.947	306.394
82.5	219.222	215.821	214.320	212.325	213.826	212.325	214.320	215.821	219.222	215.821
85.0	131.290	128.060	128.782	127.680	126.388	127.680	128.782	128.060	131.290	128.060
87.5	55.993	50.540	46.227	50.008	51.965	50.008	46.227	50.540	55.993	50.540
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	18.525	20.330	21.261	21.964	21.033	21.964	21.261	20.330	18.525	20.330
95.0	39.235	40.090	41.762	41.534	41.629	41.534	41.762	40.090	39.235	40.090
97.5	65.151	64.847	65.873	65.474	67.507	65.474	65.873	64.847	65.151	64.847
100.0	94.734	94.943	97.584	97.242	95.684	97.242	97.584	94.943	94.734	94.943
102.5	129.010	128.801	131.594	129.656	129.770	129.656	131.594	128.801	129.010	128.801
105.0	165.300	164.578	167.694	166.079	166.174	166.079	167.694	164.578	165.300	164.578
107.5	201.419	204.421	205.086	205.656	204.459	205.656	205.086	204.421	201.419	204.421
110.0	244.188	244.207	245.195	246.620	244.910	246.620	245.195	244.207	244.188	244.207
112.5	284.943	285.570	287.451	287.774	285.760	287.774	287.451	285.570	284.943	285.570
115.0	326.705	327.142	328.719	329.441	328.339	329.441	328.719	327.142	326.705	327.142
117.5	368.676	370.766	370.443	372.457	371.526	372.457	370.443	370.766	368.676	370.766
120.0	412.167	415.055	415.302	416.765	414.390	416.765	415.302	415.055	412.167	415.055
122.5	461.377	458.641	460.655	459.439	458.850	459.439	460.655	458.641	461.377	458.641
125.0	505.172	505.153	506.578	507.186	505.609	507.186	506.578	505.153	505.172	505.153
127.5	548.834	550.297	553.090	552.273	550.088	552.273	553.090	550.297	548.834	550.297
130.0	594.130	597.493	599.374	598.728	597.740	598.728	599.374	597.493	594.130	597.493
132.5	641.953	643.758	646.399	645.772	644.290	645.772	646.399	643.758	641.953	643.758

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

135.0	688.123	690.346	693.386	691.714	692.531	691.714	693.386	690.346	688.123	690.346
137.5	737.352	738.131	739.822	737.523	738.435	737.523	739.822	738.131	737.352	738.131
140.0	783.427	784.662	788.367	783.826	785.935	783.826	788.367	784.662	783.427	784.662
142.5	827.697	829.673	833.568	828.324	829.103	828.324	833.568	829.673	827.697	829.673
145.0	872.480	872.271	877.705	872.651	872.708	872.651	877.705	872.271	872.480	872.271
147.5	916.028	915.021	918.137	914.394	915.230	914.394	918.137	915.021	916.028	915.021
150.0	955.814	955.909	960.336	955.244	954.940	955.244	960.336	955.909	955.814	955.909
152.5	992.997	992.085	996.455	992.826	992.560	992.826	996.455	992.085	992.997	992.085
155.0	1027.102	1027.178	1031.130	1028.812	1028.166	1028.812	1031.130	1027.178	1027.102	1027.178
157.5	1059.212	1059.307	1061.891	1060.523	1060.466	1060.523	1061.891	1059.307	1059.212	1059.307
160.0	1090.410	1088.491	1091.455	1088.510	1089.992	1088.510	1091.455	1088.491	1090.410	1088.491
162.5	1115.224	1112.545	1118.112	1115.395	1113.856	1115.395	1118.112	1112.545	1115.224	1112.545
165.0	1136.618	1133.806	1138.841	1135.535	1135.668	1135.535	1138.841	1133.806	1136.618	1133.806
167.5	1155.105	1154.250	1159.513	1154.193	1155.466	1154.193	1159.513	1154.250	1155.105	1154.250
170.0	1173.668	1169.887	1173.535	1170.647	1171.255	1170.647	1173.535	1169.887	1173.668	1169.887
172.5	1186.569	1183.244	1186.132	1183.529	1184.441	1183.529	1186.132	1183.244	1186.569	1183.244
175.0	1191.965	1192.611	1195.309	1193.390	1194.188	1193.390	1195.309	1192.611	1191.965	1192.611
177.5	1198.596	1198.026	1201.617	1198.767	1198.976	1198.767	1201.617	1198.026	1198.596	1198.026
180.0	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724	2492.724
2.5	2491.356	2489.399	2488.050	2489.399	2491.356	2489.076	2486.587
5.0	2481.419	2479.177	2478.265	2479.177	2481.419	2479.120	2480.146
7.5	2466.656	2463.198	2462.780	2463.198	2466.656	2464.072	2462.172
10.0	2443.723	2442.127	2439.353	2442.127	2443.723	2442.146	2440.075
12.5	2416.135	2413.798	2413.361	2413.798	2416.135	2415.280	2415.052
15.0	2383.303	2381.650	2380.624	2381.650	2383.303	2382.809	2383.721
17.5	2346.538	2344.790	2343.821	2344.790	2346.538	2345.588	2344.866
20.0	2304.016	2301.527	2298.354	2301.527	2304.016	2302.952	2302.002
22.5	2254.597	2251.975	2250.227	2251.975	2254.597	2255.737	2253.913
25.0	2203.012	2200.789	2198.680	2200.789	2203.012	2203.734	2204.665
27.5	2147.266	2144.359	2140.312	2144.359	2147.266	2146.259	2149.337
30.0	2085.573	2082.077	2078.296	2082.077	2085.573	2087.359	2088.556
32.5	2020.289	2017.629	2014.912	2017.629	2020.289	2023.196	2024.887
35.0	1951.224	1947.120	1944.802	1947.120	1951.224	1951.946	1955.404
37.5	1875.509	1872.564	1869.581	1872.564	1875.509	1879.423	1882.387
40.0	1796.526	1794.588	1792.270	1794.588	1796.526	1800.820	1802.644
42.5	1716.422	1714.009	1711.311	1714.009	1716.422	1719.975	1722.046
45.0	1632.803	1629.516	1627.882	1629.516	1632.803	1637.667	1639.814
47.5	1544.358	1542.173	1542.629	1542.173	1544.358	1551.255	1556.157
50.0	1454.355	1453.101	1451.904	1453.101	1454.355	1461.233	1465.660
52.5	1362.566	1362.262	1361.673	1362.262	1362.566	1367.240	1372.807
55.0	1268.991	1267.148	1266.654	1267.148	1268.991	1273.874	1276.838
57.5	1173.611	1172.262	1173.269	1172.262	1173.611	1179.558	1184.612
60.0	1075.913	1075.476	1078.573	1075.476	1075.913	1084.083	1090.106
62.5	978.690	977.607	981.578	977.607	978.690	984.105	992.465
65.0	879.206	881.106	883.728	881.106	879.206	884.051	891.936
67.5	780.482	780.083	785.346	780.083	780.482	783.769	792.281
70.0	681.549	680.599	685.596	680.599	681.549	685.919	692.683
72.5	582.540	582.996	582.540	582.996	582.540	585.523	591.584
75.0	487.768	486.647	488.585	486.647	487.768	489.706	496.052
77.5	393.623	390.963	393.509	390.963	393.623	395.523	401.375
80.0	302.784	302.157	300.504	302.157	302.784	306.394	309.947

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

82.5	214.320	212.325	213.826	212.325	214.320	215.821	219.222
85.0	128.782	127.680	126.388	127.680	128.782	128.060	131.290
87.5	46.227	50.008	51.965	50.008	46.227	50.540	55.993
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	21.261	21.964	21.033	21.964	21.261	20.330	18.525
95.0	41.762	41.534	41.629	41.534	41.762	40.090	39.235
97.5	65.873	65.474	67.507	65.474	65.873	64.847	65.151
100.0	97.584	97.242	95.684	97.242	97.584	94.943	94.734
102.5	131.594	129.656	129.770	129.656	131.594	128.801	129.010
105.0	167.694	166.079	166.174	166.079	167.694	164.578	165.300
107.5	205.086	205.656	204.459	205.656	205.086	204.421	201.419
110.0	245.195	246.620	244.910	246.620	245.195	244.207	244.188
112.5	287.451	287.774	285.760	287.774	287.451	285.570	284.943
115.0	328.719	329.441	328.339	329.441	328.719	327.142	326.705
117.5	370.443	372.457	371.526	372.457	370.443	370.766	368.676
120.0	415.302	416.765	414.390	416.765	415.302	415.055	412.167
122.5	460.655	459.439	458.850	459.439	460.655	458.641	461.377
125.0	506.578	507.186	505.609	507.186	506.578	505.153	505.172
127.5	553.090	552.273	550.088	552.273	553.090	550.297	548.834
130.0	599.374	598.728	597.740	598.728	599.374	597.493	594.130
132.5	646.399	645.772	644.290	645.772	646.399	643.758	641.953
135.0	693.386	691.714	692.531	691.714	693.386	690.346	688.123
137.5	739.822	737.523	738.435	737.523	739.822	738.131	737.352
140.0	788.367	783.826	785.935	783.826	788.367	784.662	783.427
142.5	833.568	828.324	829.103	828.324	833.568	829.673	827.697
145.0	877.705	872.651	872.708	872.651	877.705	872.271	872.480
147.5	918.137	914.394	915.230	914.394	918.137	915.021	916.028
150.0	960.336	955.244	954.940	955.244	960.336	955.909	955.814
152.5	996.455	992.826	992.560	992.826	996.455	992.085	992.997
155.0	1031.130	1028.812	1028.166	1028.812	1031.130	1027.178	1027.102
157.5	1061.891	1060.523	1060.466	1060.523	1061.891	1059.307	1059.212
160.0	1091.455	1088.510	1089.992	1088.510	1091.455	1088.491	1090.410
162.5	1118.112	1115.395	1113.856	1115.395	1118.112	1112.545	1115.224
165.0	1138.841	1135.535	1135.668	1135.535	1138.841	1133.806	1136.618
167.5	1159.513	1154.193	1155.466	1154.193	1159.513	1154.250	1155.105
170.0	1173.535	1170.647	1171.255	1170.647	1173.535	1169.887	1173.668
172.5	1186.132	1183.529	1184.441	1183.529	1186.132	1183.244	1186.569
175.0	1195.309	1193.390	1194.188	1193.390	1195.309	1192.611	1191.965
177.5	1201.617	1198.767	1198.976	1198.767	1201.617	1198.026	1198.596
180.0	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484	1201.484

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	907.77	N.A.	9.00
0-30	1922.56	N.A.	19.10
0-40	3142.01	N.A.	31.20
0-60	5537.68	N.A.	55.00
0-80	6928.74	N.A.	68.80
0-90	7077.07	N.A.	70.30
10-90	6841.56	N.A.	68.00
20-40	2234.24	N.A.	22.20
20-50	3493.79	N.A.	34.70
40-70	3269.22	N.A.	32.50
60-80	1391.06	N.A.	13.80
70-80	517.50	N.A.	5.10
80-90	148.34	N.A.	1.50
90-110	224.67	N.A.	2.20
90-120	550.12	N.A.	5.50
90-130	1002.42	N.A.	10.00
90-150	2082.11	N.A.	20.70
90-180	2989.06	N.A.	29.70
110-180	2764.38	N.A.	27.50
0-180	10066.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.51
10-20	672.26
20-30	1014.78
30-40	1219.46
40-50	1259.55
50-60	1136.11
60-70	873.56
70-80	517.50
80-90	148.34
90-100	47.76
100-110	176.91
110-120	325.45
120-130	452.30
130-140	533.58
140-150	546.11
150-160	473.30
160-170	320.39
170-180	113.25

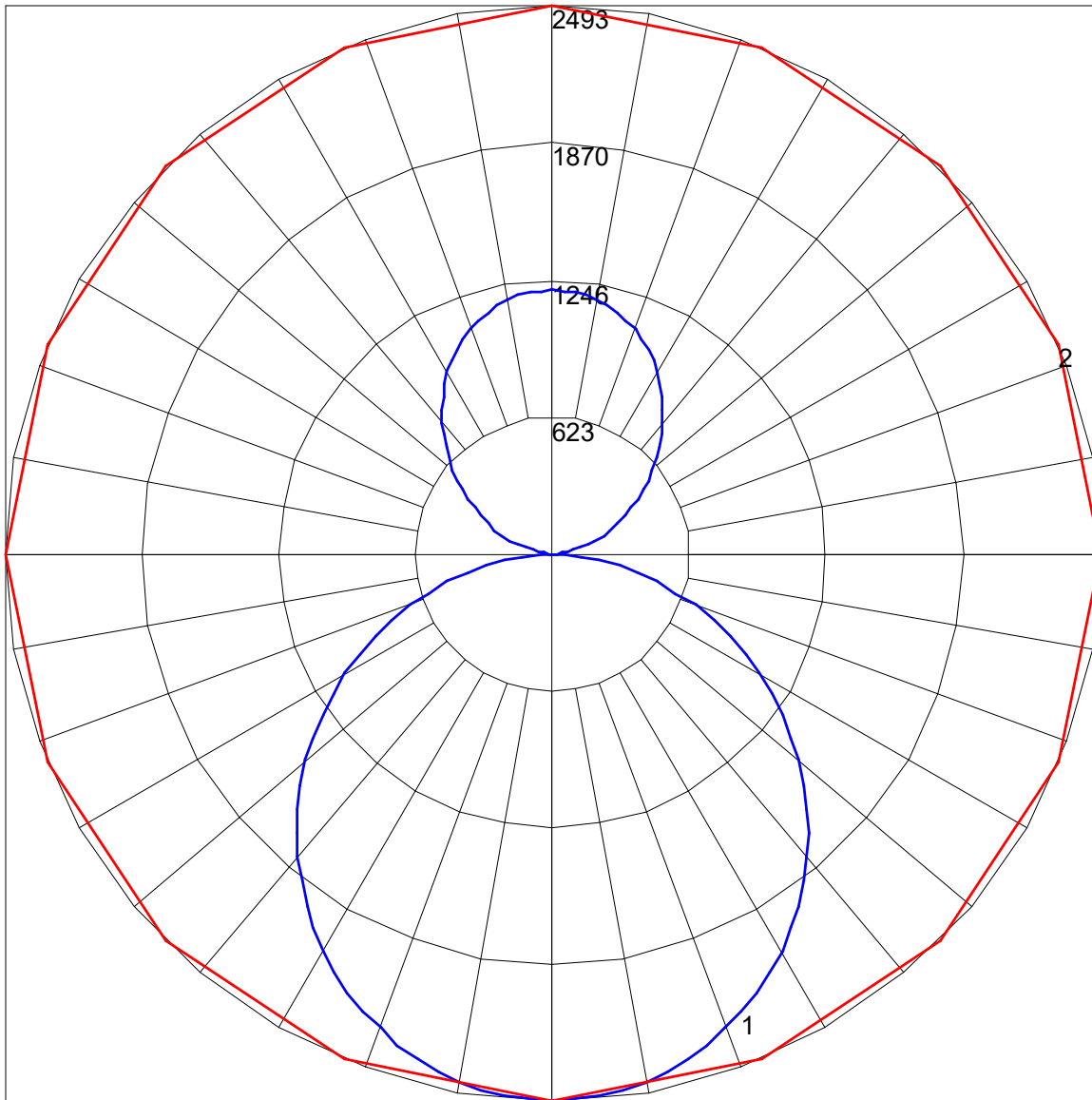
IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D9.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	102	97	93	90	96	92	89	85	83	80	77	74	72	70	66	64	63	59
2	93	85	78	73	87	80	75	70	72	68	64	65	61	58	57	55	52	49
3	84	74	67	60	79	71	64	58	63	58	53	57	52	49	51	47	44	41
4	77	66	57	51	73	62	55	49	56	50	45	51	46	42	45	41	38	35
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	41	36	33	30
6	65	53	44	38	62	50	42	37	45	39	34	41	36	31	37	32	29	26
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	34	29	26	23
8	56	43	35	30	53	41	34	29	38	31	27	34	29	25	31	26	23	21
9	52	40	32	26	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

POLAR GRAPH



Maximum Candela = 2492.724 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)