



Report No.:

Test Time: 2019-04-09 10:16

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): 162

Voltage: 230.1 V

Power: 42.84 W

Luminous Width (mm): 72

Current: 0.192 A

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 3162.7 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 124.8, 137.7, 130.4, 130.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 74.6, 94.7, 82.5, 82.7

Luminaire Efficacy Rating (LER): 73.87

Max. Intensity: 1732.92 cd

S/MH(C0/C180): 1.01

Total Rated Lamp Lumens: 3162.7 lm

Efficiency: 100%

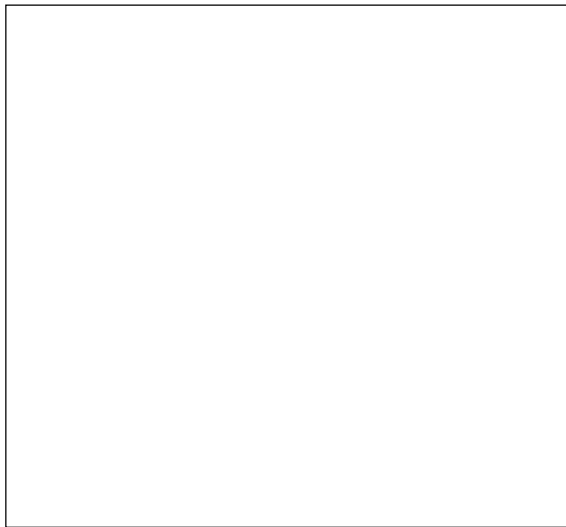
Upward Ratio: 0%

Central Intensity: 1729.94 cd

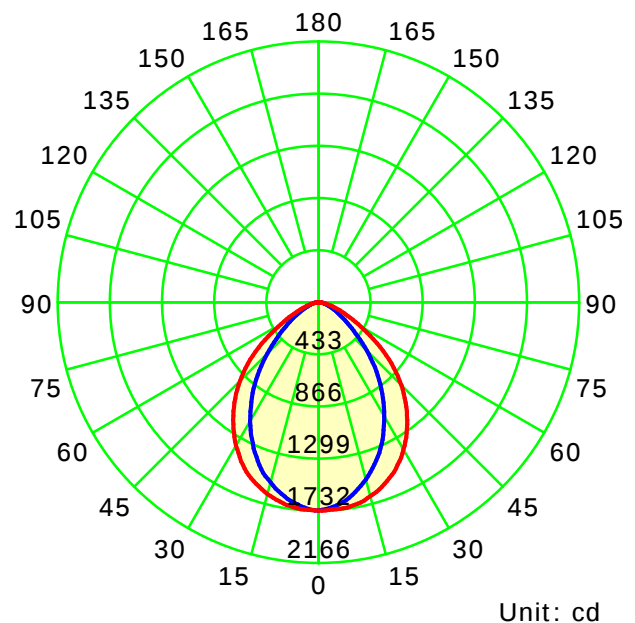
Pos of Max. Intensity: H135 V1

S/MH(C90/C270): 1.20

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

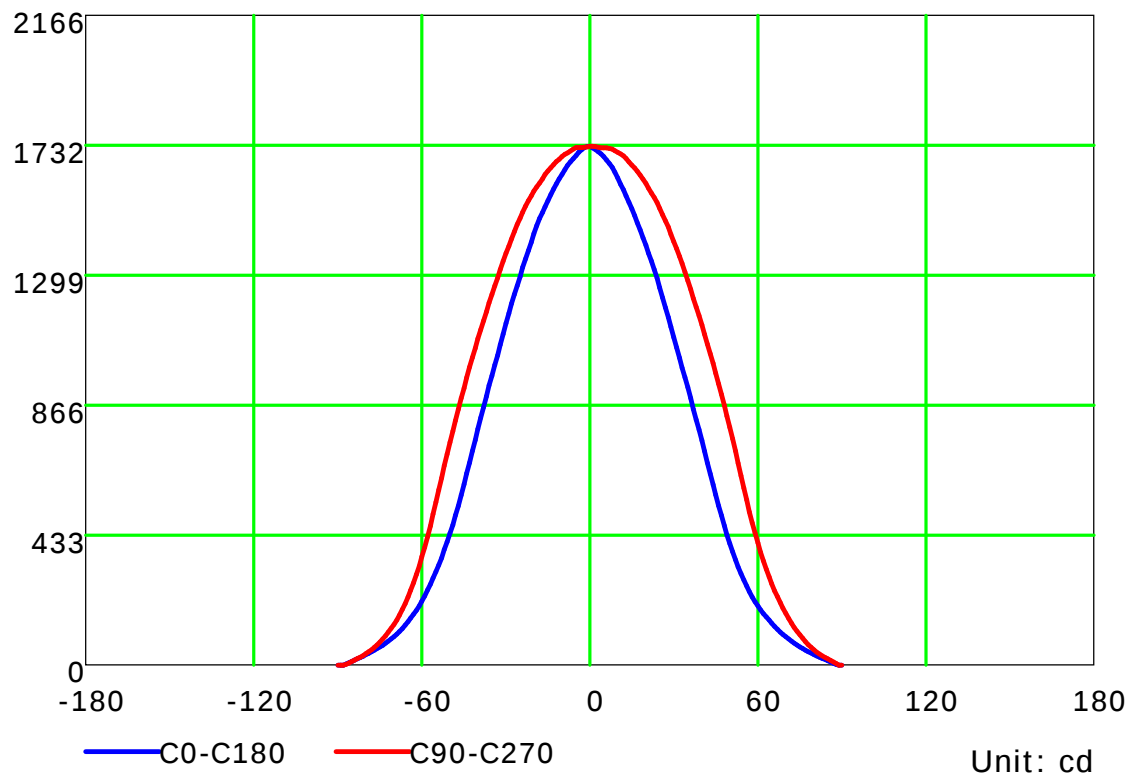
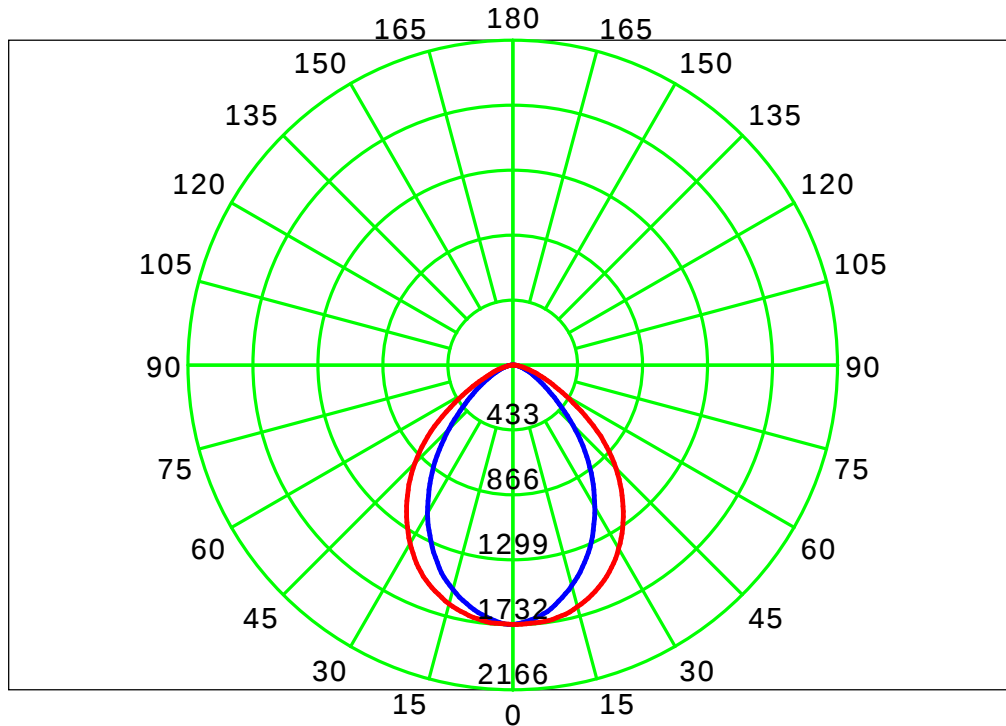
Distance: 7.517 m

Humidity:

Inspector:



Luminous Intensity Distribution Curve

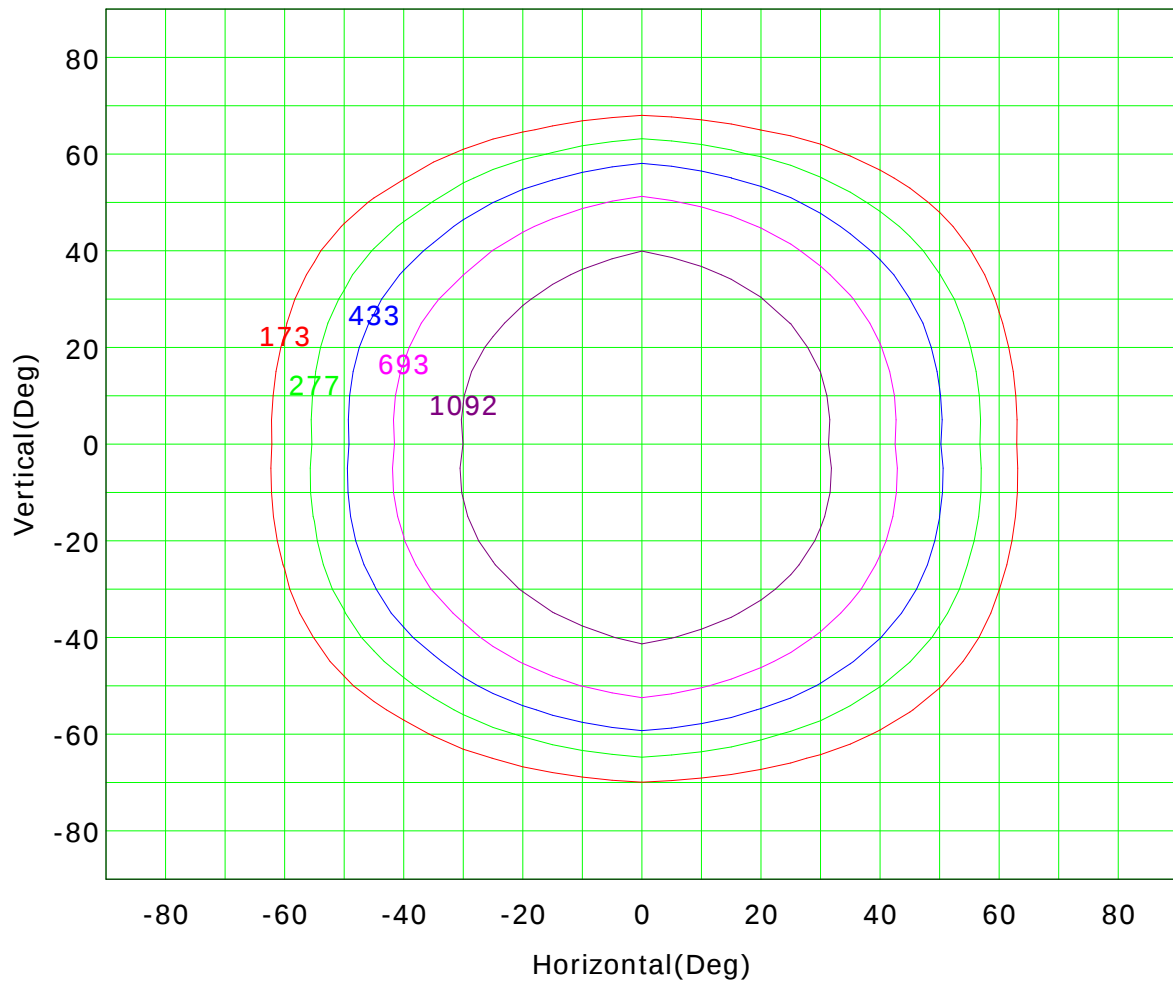


C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.517 m
Humidity:
Inspector:



Isocandela (rectangle)



I_{max} (100%): 1733 cd

(10%): 173 cd	(16%): 277 cd
(25%): 433 cd	(40%): 693 cd
(63%): 1092 cd	(100%): 1733 cd

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

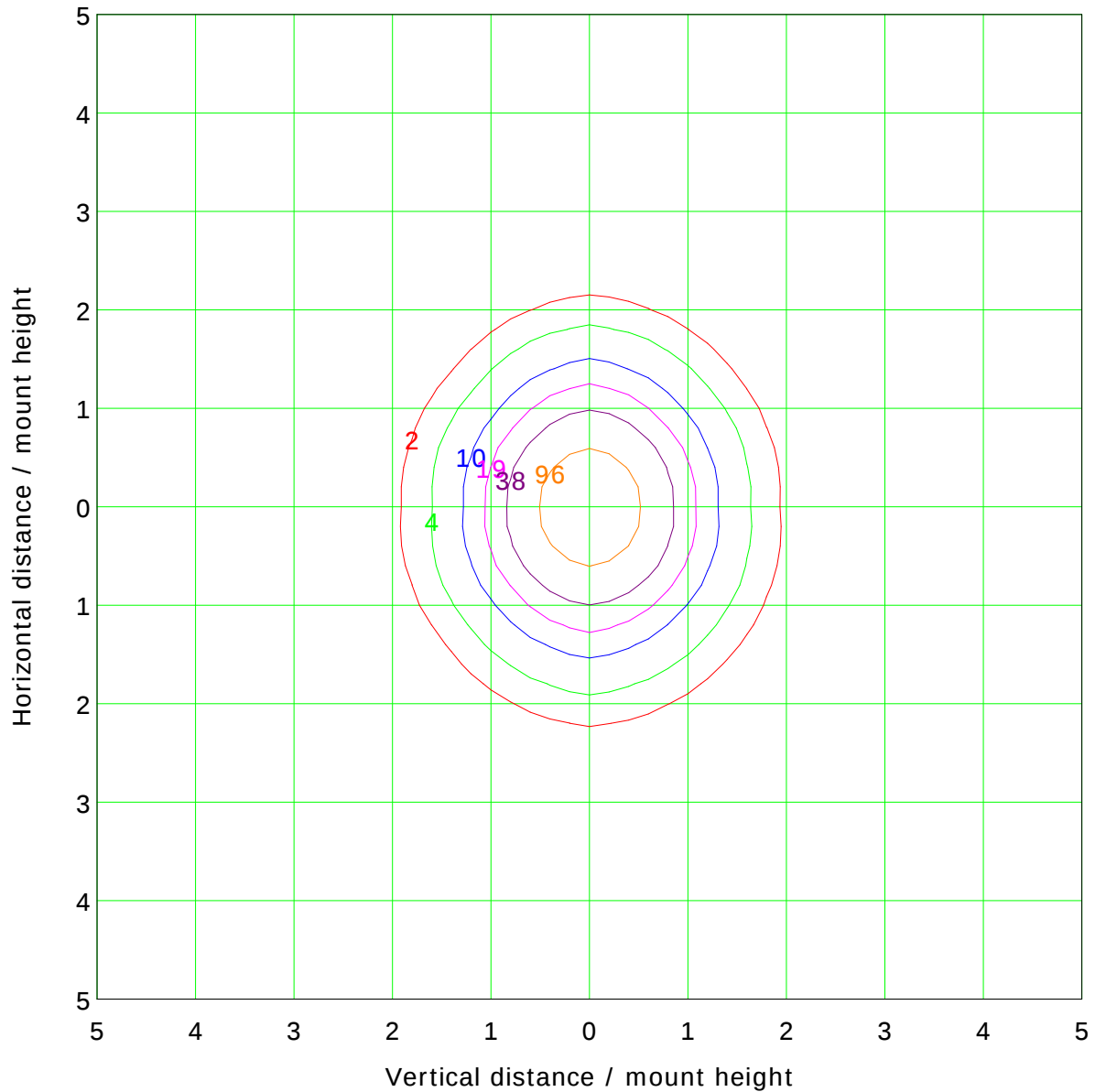
Distance: 7.517 m

Humidity:

Inspector:



IsoLux Plot



Mounting Height: 3.0m Max Lux(100%): 192.5 lx

(1%): 1.9 lx	(2%): 3.8 lx
(5%): 9.6 lx	(10%): 19.2 lx
(20%): 38.5 lx	(50%): 96.2 lx
(100%): 192.5 lx	

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

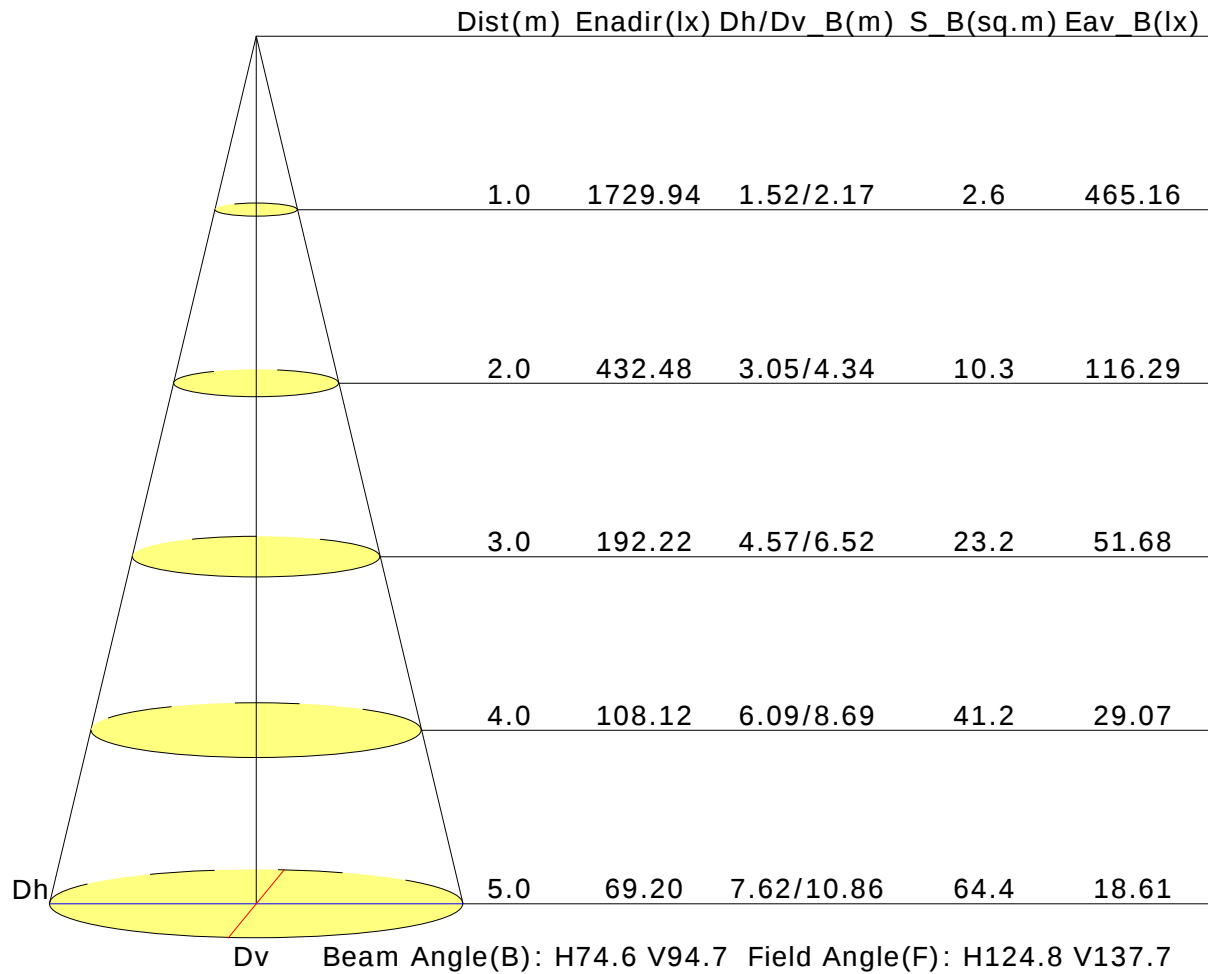
Distance: 7.517 m

Humidity:

Inspector:



Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	24.9	26.1	25.2	26.3	26.5	27.2	28.4	27.5	28.6	28.8
3H	25.3	26.4	25.7	26.7	26.9	27.7	28.8	28.1	29.1	29.3
4H	25.5	26.5	25.8	26.8	27.1	27.9	28.9	28.2	29.2	29.5
6H	25.6	26.5	26.0	26.8	27.2	28.0	28.9	28.3	29.2	29.5
8H	25.6	26.5	26.0	26.8	27.2	28.0	28.9	28.4	29.2	29.5
12H	25.6	26.5	26.0	26.8	27.2	28.0	28.8	28.4	29.2	29.5
X=4H Y=2H	25.3	26.3	25.6	26.5	26.8	27.3	28.3	27.6	28.5	28.8
3H	25.8	26.7	26.2	27.0	27.4	27.9	28.8	28.3	29.1	29.5
4H	26.1	26.9	26.5	27.2	27.6	28.2	28.9	28.6	29.3	29.7
6H	26.3	26.9	26.7	27.3	27.7	28.3	29.0	28.7	29.4	29.8
8H	26.3	27.0	26.8	27.4	27.8	28.4	29.0	28.8	29.4	29.8
12H	26.4	26.9	26.8	27.3	27.8	28.4	28.9	28.8	29.3	29.8
X=8H Y=4H	26.2	26.8	26.6	27.2	27.6	28.2	28.8	28.6	29.2	29.6
6H	26.5	27.0	26.9	27.4	27.8	28.4	28.9	28.8	29.3	29.8
8H	26.6	27.0	27.0	27.5	27.9	28.5	28.9	28.9	29.3	29.8
12H	26.6	27.0	27.1	27.5	28.0	28.5	28.9	29.0	29.3	29.8
X=12H Y=4H	26.2	26.7	26.6	27.2	27.6	28.2	28.7	28.6	29.1	29.6
6H	26.5	26.9	27.0	27.4	27.8	28.4	28.8	28.9	29.3	29.7
8H	26.6	27.0	27.1	27.4	27.9	28.5	28.8	29.0	29.3	29.8
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.9					+0.3/-0.5				
S=1.5H	+1.1/-1.9					+1.1/-1.5				
S=2.0H	+2.0/-2.8					+2.4/-2.5				

Calculate in accordance with CIE Pub.117. The table is revised with 3163lm ($8\log(F/F_0) = 4.0$).

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:



Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	
G1.0	1725.2	1726.8	1730.6	1732.9	1729.2	1728.1	1728.6	1726.2	1725.2	
G2.0	1719.4	1723.2	1729.4	1732.0	1725.7	1726.4	1727.1	1720.6	1719.4	
G3.0	1712.6	1718.0	1726.9	1729.1	1719.0	1723.9	1725.8	1715.5	1712.6	
G4.0	1704.8	1711.1	1725.0	1726.5	1710.2	1719.0	1725.9	1711.4	1704.8	
G5.0	1695.8	1705.0	1725.4	1723.6	1699.7	1712.2	1725.7	1706.8	1695.8	
G6.0	1684.7	1699.5	1724.8	1717.2	1689.0	1703.5	1720.8	1698.9	1684.7	
G7.0	1672.6	1694.5	1722.7	1710.6	1677.5	1695.2	1714.4	1688.2	1672.6	
G8.0	1659.5	1688.7	1720.4	1701.9	1666.4	1683.9	1708.2	1677.0	1659.5	
G9.0	1643.4	1680.1	1715.6	1693.3	1652.4	1671.6	1703.4	1665.8	1643.4	
G10.0	1624.7	1671.0	1709.7	1682.4	1636.2	1660.7	1696.1	1653.9	1624.7	
G11.0	1603.7	1659.4	1704.5	1671.2	1621.2	1650.5	1686.7	1641.3	1603.7	
G12.0	1585.2	1644.6	1698.6	1660.0	1604.1	1638.6	1678.7	1627.4	1585.2	
G13.0	1564.5	1627.8	1689.9	1647.3	1588.0	1623.4	1669.1	1609.5	1564.5	
G14.0	1544.0	1610.8	1678.2	1632.3	1568.8	1605.7	1658.5	1592.0	1544.0	
G15.0	1522.3	1595.7	1667.3	1616.9	1548.9	1589.0	1648.3	1575.0	1522.3	
G16.0	1499.0	1576.7	1657.5	1601.5	1528.4	1572.6	1636.3	1557.3	1499.0	
G17.0	1475.4	1557.4	1646.9	1584.3	1509.2	1555.4	1621.7	1537.3	1475.4	
G18.0	1452.0	1536.9	1634.2	1568.8	1489.7	1534.3	1608.1	1516.8	1452.0	
G19.0	1425.3	1516.7	1620.6	1551.1	1465.8	1515.2	1595.0	1494.9	1425.3	
G20.0	1400.0	1496.2	1606.2	1530.8	1439.0	1495.6	1580.4	1471.3	1400.0	
G21.0	1374.2	1475.8	1590.6	1509.2	1409.7	1474.4	1565.1	1448.5	1374.2	
G22.0	1348.4	1453.7	1574.7	1489.0	1382.5	1453.5	1548.7	1424.2	1348.4	
G23.0	1319.6	1429.9	1559.0	1469.6	1354.8	1434.9	1530.6	1401.9	1319.6	
G24.0	1290.2	1404.2	1542.2	1449.0	1327.4	1413.8	1510.9	1375.8	1290.2	
G25.0	1258.3	1379.3	1522.8	1426.1	1295.3	1389.3	1490.0	1348.1	1258.3	
G26.0	1225.4	1352.3	1502.1	1399.4	1265.5	1360.6	1470.0	1320.9	1225.4	
G27.0	1192.1	1325.7	1481.7	1374.2	1236.3	1332.0	1445.6	1292.7	1192.1	
G28.0	1159.9	1299.5	1461.8	1346.5	1205.4	1302.7	1420.7	1264.8	1159.9	
G29.0	1128.1	1272.6	1437.3	1319.4	1172.9	1275.5	1397.1	1237.2	1128.1	
G30.0	1092.8	1243.6	1412.5	1290.3	1140.1	1246.2	1373.9	1207.6	1092.8	
G31.0	1059.1	1213.7	1388.6	1261.3	1103.8	1214.5	1346.9	1175.5	1059.1	
G32.0	1025.4	1180.8	1363.6	1232.8	1069.1	1183.1	1319.3	1141.6	1025.4	
G33.0	992.1	1147.6	1339.5	1199.4	1033.4	1153.5	1291.7	1109.0	992.1	
G34.0	959.5	1115.7	1311.3	1167.7	1001.4	1121.3	1264.8	1074.3	959.5	
G35.0	926.3	1083.5	1282.5	1135.7	965.6	1089.6	1236.7	1040.0	926.3	
G36.0	890.7	1049.7	1252.8	1102.8	932.7	1053.9	1208.0	1005.0	890.7	

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.517 m
Humidity:
Inspector:



Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	854.2	1015.5	1223.8	1068.9	897.1	1020.8	1178.4	973.2	854.2	
G38.0	818.7	982.0	1195.0	1035.5	861.0	983.9	1148.6	938.0	818.7	
G39.0	785.5	946.1	1165.7	1000.2	825.7	949.2	1118.6	903.6	785.5	
G40.0	749.5	910.6	1134.4	966.1	788.5	910.8	1088.8	866.7	749.5	
G41.0	714.2	873.8	1104.0	929.3	750.9	873.6	1057.2	830.4	714.2	
G42.0	674.6	839.5	1071.1	891.9	714.2	837.0	1025.7	793.7	674.6	
G43.0	639.0	805.6	1039.3	855.6	675.2	802.2	993.6	757.9	639.0	
G44.0	601.8	769.5	1006.4	818.3	639.4	766.2	958.7	721.2	601.8	
G45.0	567.7	731.9	974.0	779.9	603.1	728.6	923.8	684.6	567.7	
G46.0	532.4	694.9	938.2	741.8	567.3	691.3	890.0	648.7	532.4	
G47.0	499.7	656.7	903.8	703.5	531.1	654.7	853.0	612.9	499.7	
G48.0	466.1	621.1	867.2	665.9	499.7	617.7	815.7	578.8	466.1	
G49.0	434.9	585.3	830.9	630.4	468.1	582.5	780.1	543.3	434.9	
G50.0	405.6	552.5	793.7	595.6	439.9	546.8	742.9	508.9	405.6	
G51.0	378.2	518.0	755.3	560.4	411.4	512.4	704.0	475.0	378.2	
G52.0	352.1	483.8	714.3	525.0	385.6	479.0	665.4	442.6	352.1	
G53.0	328.3	451.8	673.8	490.6	358.5	447.8	624.5	412.4	328.3	
G54.0	305.2	421.1	631.9	460.1	334.8	418.6	585.2	382.5	305.2	
G55.0	284.0	391.3	591.1	429.4	311.9	390.5	543.4	354.3	284.0	
G56.0	264.4	365.1	550.9	400.7	291.0	361.0	503.9	326.9	264.4	
G57.0	245.8	338.3	511.2	372.7	271.0	334.2	464.6	301.7	245.8	
G58.0	228.3	313.5	475.3	345.7	251.5	308.8	428.4	277.3	228.3	
G59.0	212.3	289.8	441.0	319.6	231.4	285.0	393.2	255.0	212.3	
G60.0	197.7	267.9	407.9	296.5	214.5	263.6	362.1	235.2	197.7	
G61.0	184.9	246.5	377.6	273.7	198.3	242.9	330.2	215.8	184.9	
G62.0	172.8	227.3	348.0	253.5	183.4	223.8	302.3	199.3	172.8	
G63.0	161.8	209.6	320.6	234.0	170.2	205.8	274.9	183.5	161.8	
G64.0	151.0	193.4	294.6	216.8	157.7	189.9	250.5	169.5	151.0	
G65.0	140.4	177.8	271.3	200.2	145.7	173.4	227.4	155.8	140.4	
G66.0	129.9	163.6	248.6	184.8	133.6	158.9	205.3	143.3	129.9	
G67.0	120.1	150.2	228.4	170.0	122.7	144.7	185.7	131.1	120.1	
G68.0	111.0	138.0	208.9	156.5	112.9	132.3	167.2	120.1	111.0	
G69.0	103.1	126.4	190.8	142.9	104.2	120.7	151.4	109.9	103.1	
G70.0	95.2	116.1	173.2	130.4	95.9	109.8	136.4	100.4	95.2	
G71.0	87.7	105.9	156.4	118.6	88.0	99.4	122.9	91.5	87.7	
G72.0	80.4	96.6	140.6	108.1	80.8	89.8	110.2	83.3	80.4	
G73.0	73.8	87.7	126.5	98.2	73.7	81.1	98.4	75.5	73.8	

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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Test Device: GPM-1600
Distance: 7.517 m
Humidity:
Inspector:



Inspector: