

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0	Voltage(V): 218.20 V
Luminaire Type: 蚂蚁系列150W-低P	Current(A): 0.9410 A
Lamp Type:	Power(W): 140.61 W
Luminous Width: 0 mm	Power Factor: 0.6830
Luminous Length: 0 mm	Lamp Luminous Flux: 17253.17
Luminous Height: 0 mm	

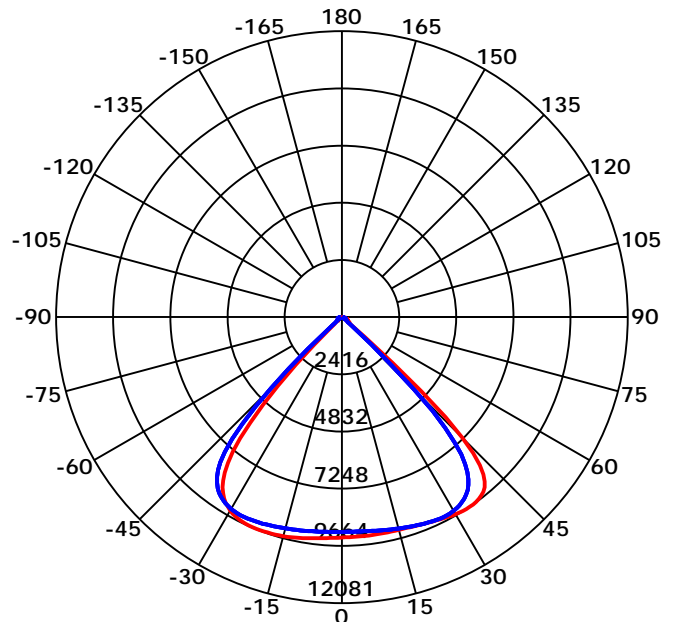
Photometric Results

CIE Class: Direct	Max. Intensity: 9664.49 cd
Luminaire Luminous Flux: 17253.17 lm	Max.Intensity Angle: C=0 Gamma=34
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 122.70 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 89.0,89.1	Center Intensity: 9312.48 cd
Field Angle(10%) C0-180,C90-270: 95.2,96.1	Effective Luminous Flux: 16644.39 lm
S/MH C0-180,C90-270: 1.453,1.453	ERP(φuse)(120deg): 16965.72 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



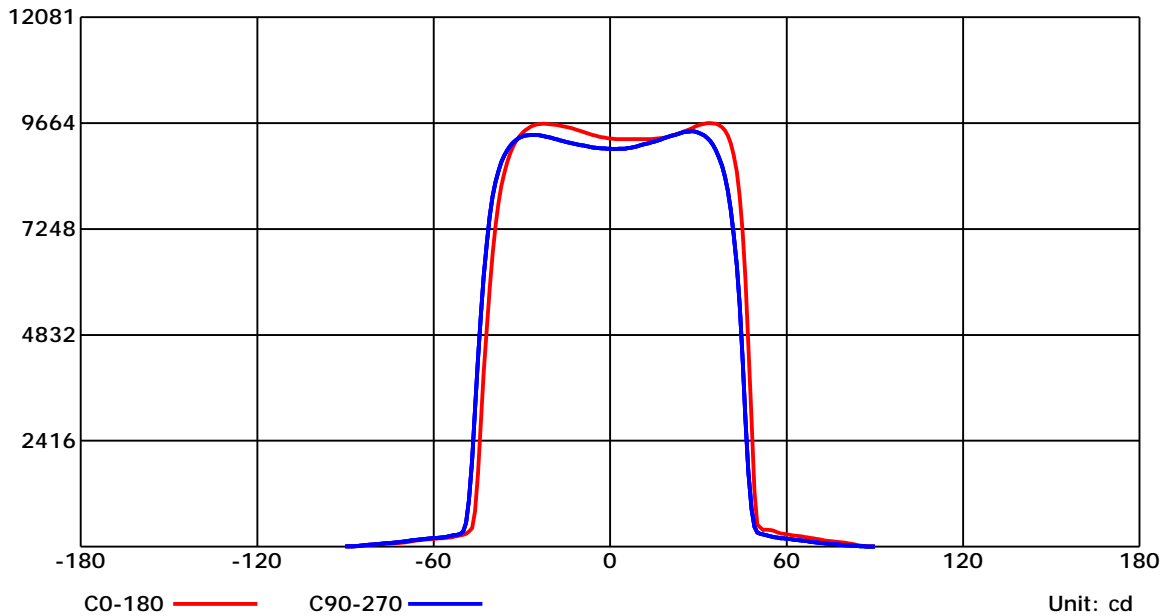
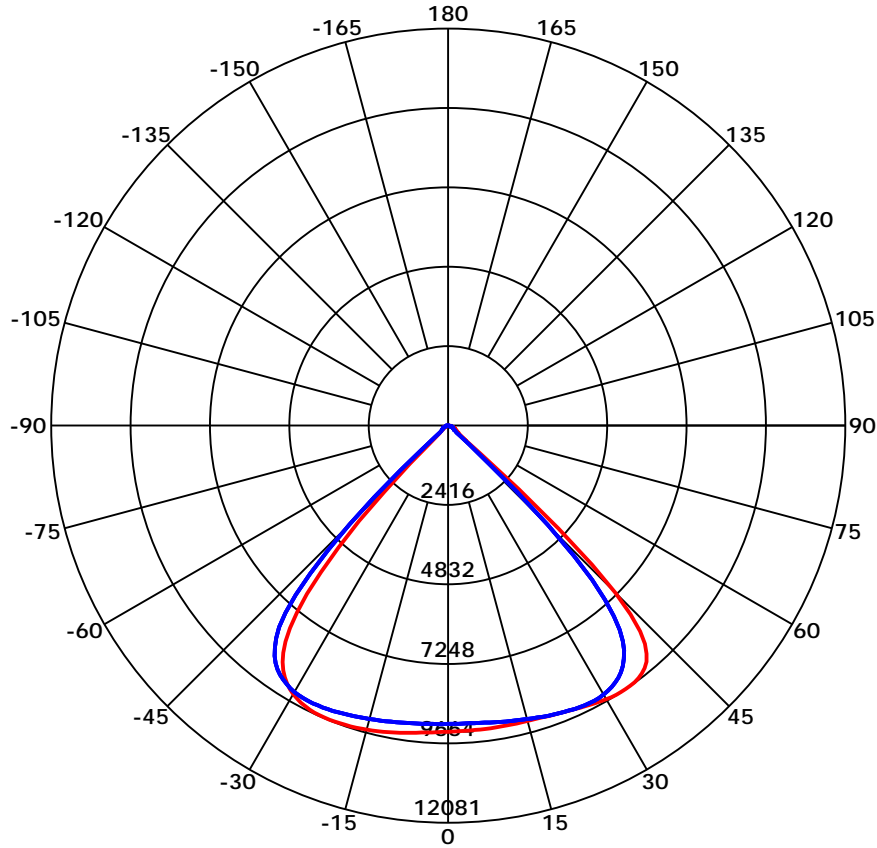
Beam Angle(50%) C0-180,C90-270: 89.0 deg,89.1 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators: ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

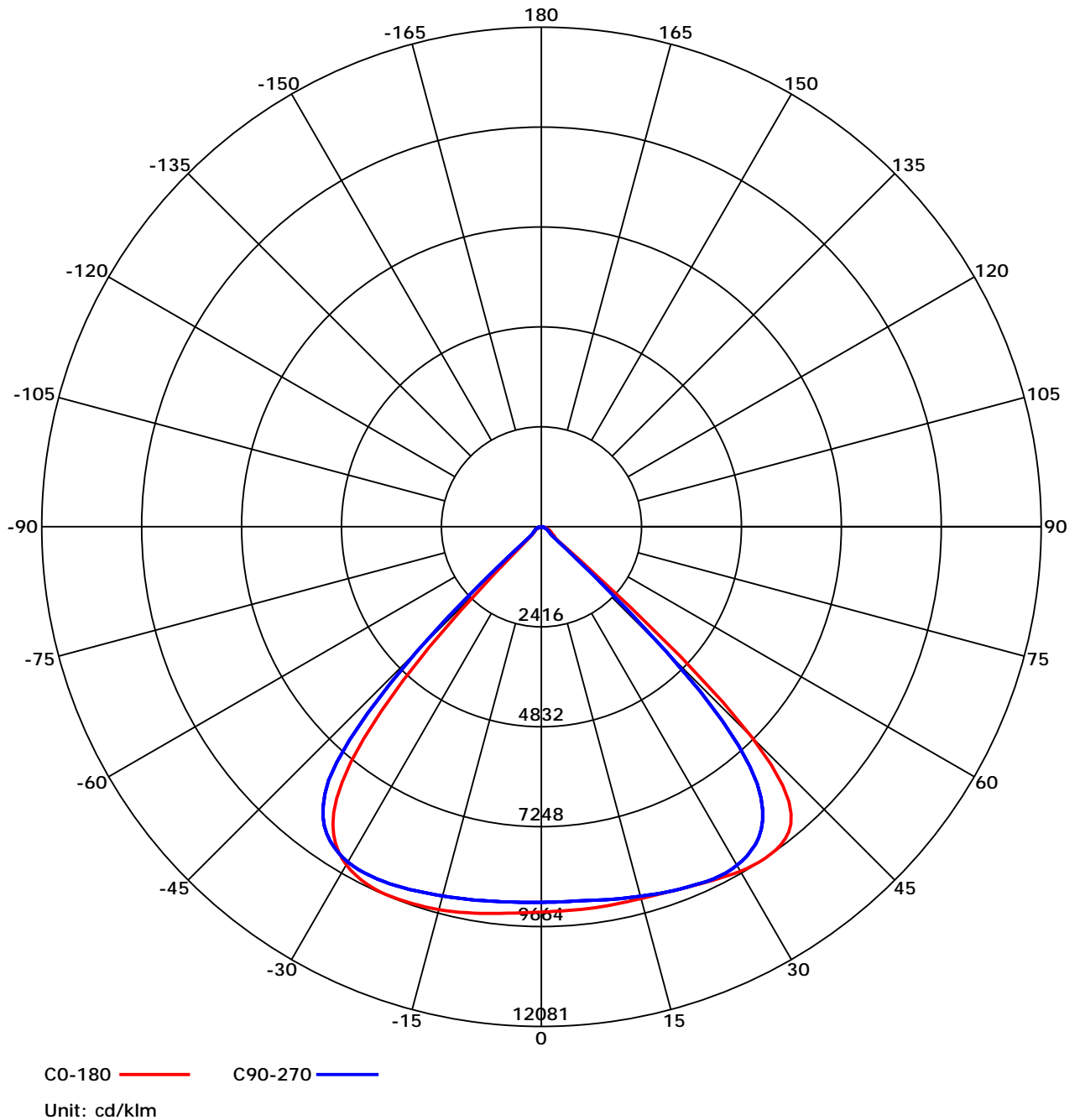
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

Luminous Intensity Distribution Curve



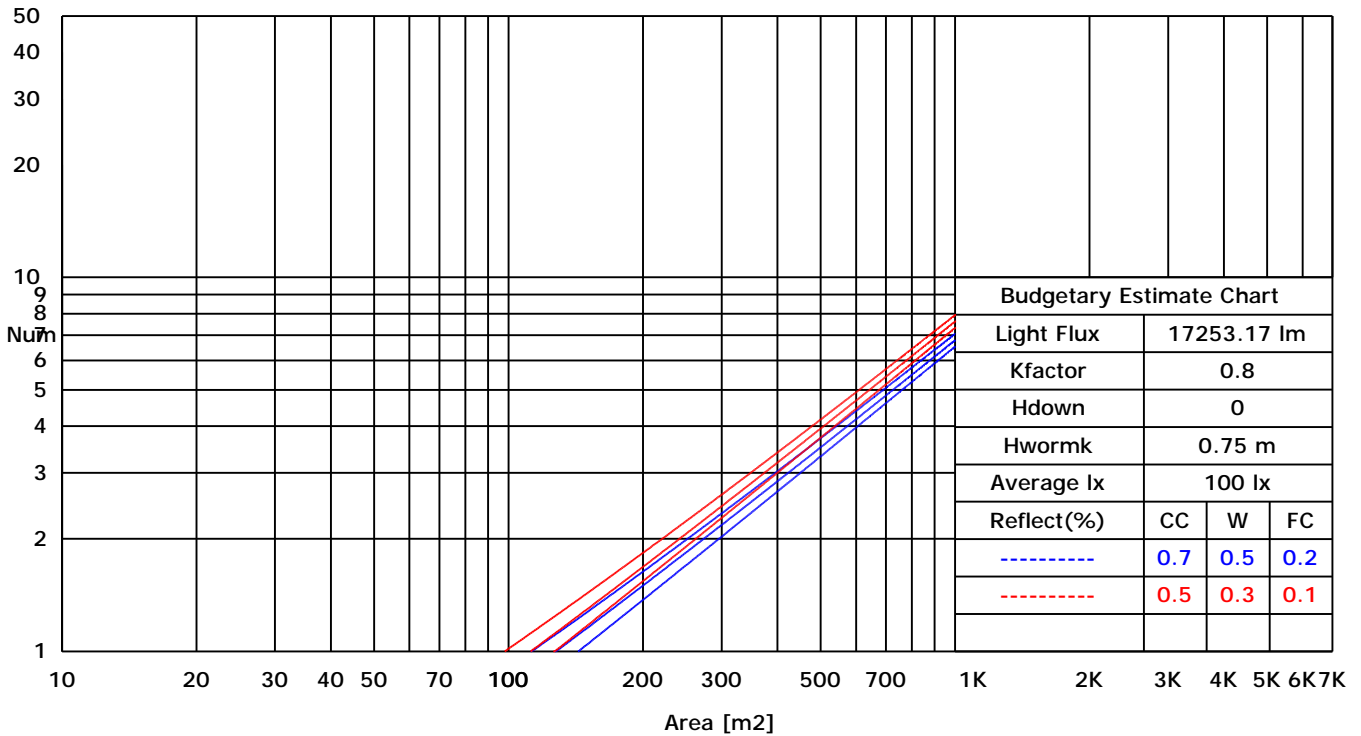
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.09	1.08	1.08	1.07	1.06	1.04	1.03	1.01	0.99	0.97	0.96	0.92	0.91	0.89	0.84
2	1.03	1.02	1.01	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.88	0.86	0.83	0.79
3	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.91	0.89	0.88	0.90	0.88	0.86	0.87	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.76	0.75	0.74	0.76	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
8	0.72	0.71	0.70	0.72	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.62	0.58	0.55
9	0.68	0.67	0.66	0.68	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.52
10	0.65	0.64	0.63	0.65	0.62	0.61	0.64	0.60	0.58	0.62	0.58	0.55	0.60	0.56	0.52	0.49

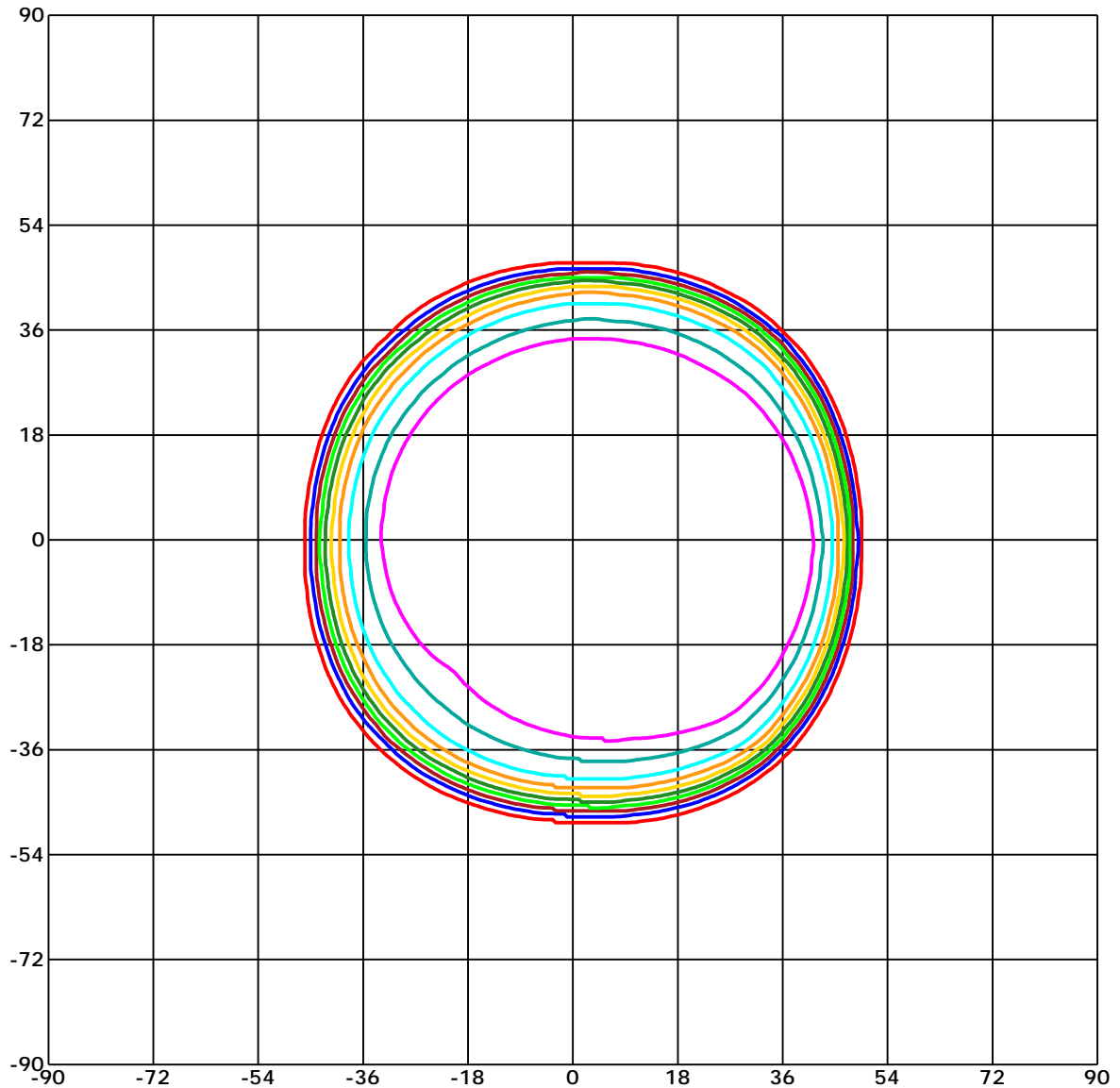
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd Imax(100%): 9664.486 cd

- | | |
|-------------------|-------------------|
| 9181.262(95%Imax) | 4832.243(50%Imax) |
| 8698.037(90%Imax) | 3865.795(40%Imax) |
| 7731.589(80%Imax) | 2899.346(30%Imax) |
| 6765.14(70%Imax) | 1932.897(20%Imax) |
| 5798.692(60%Imax) | 966.449(10%Imax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

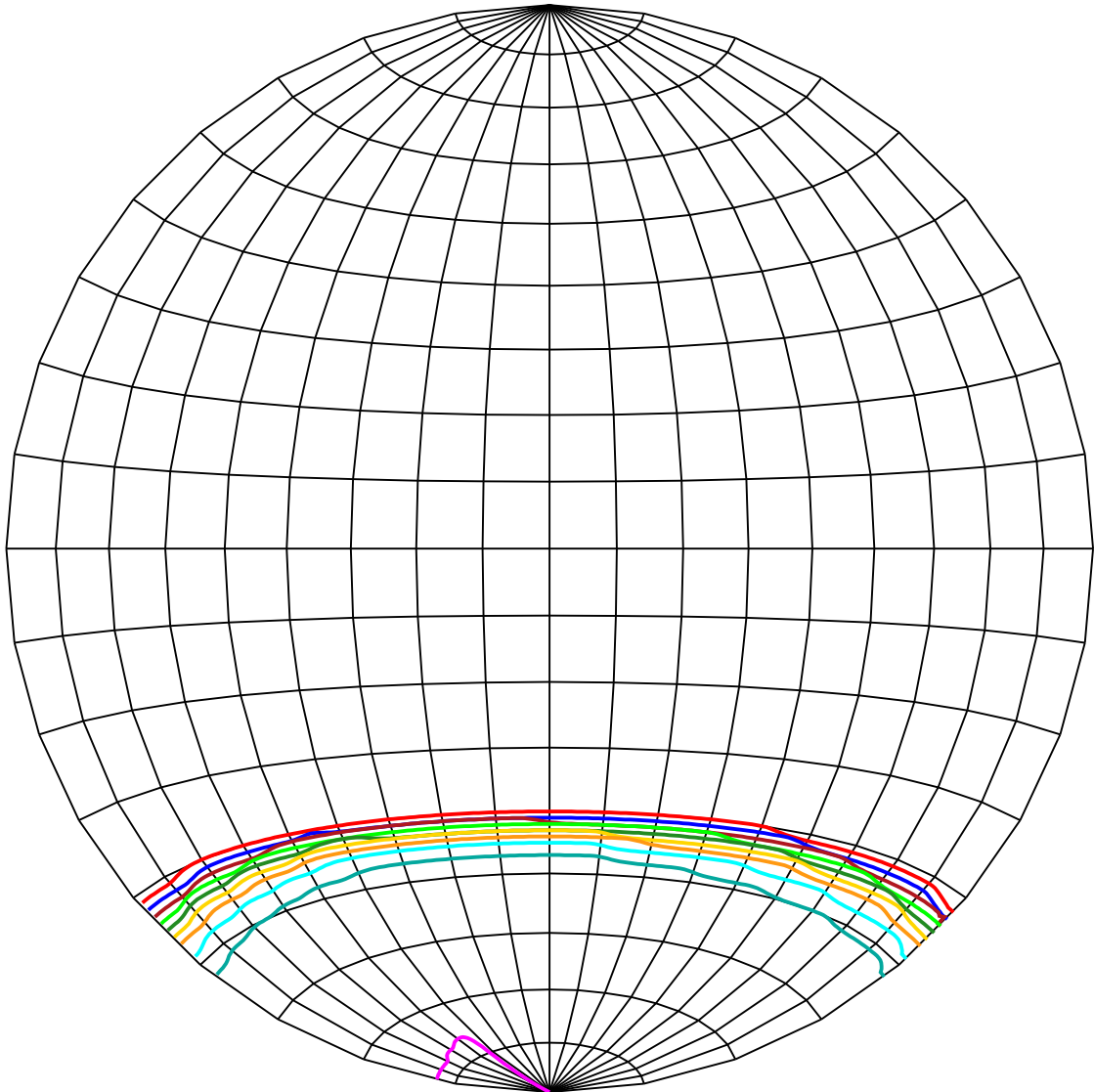
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



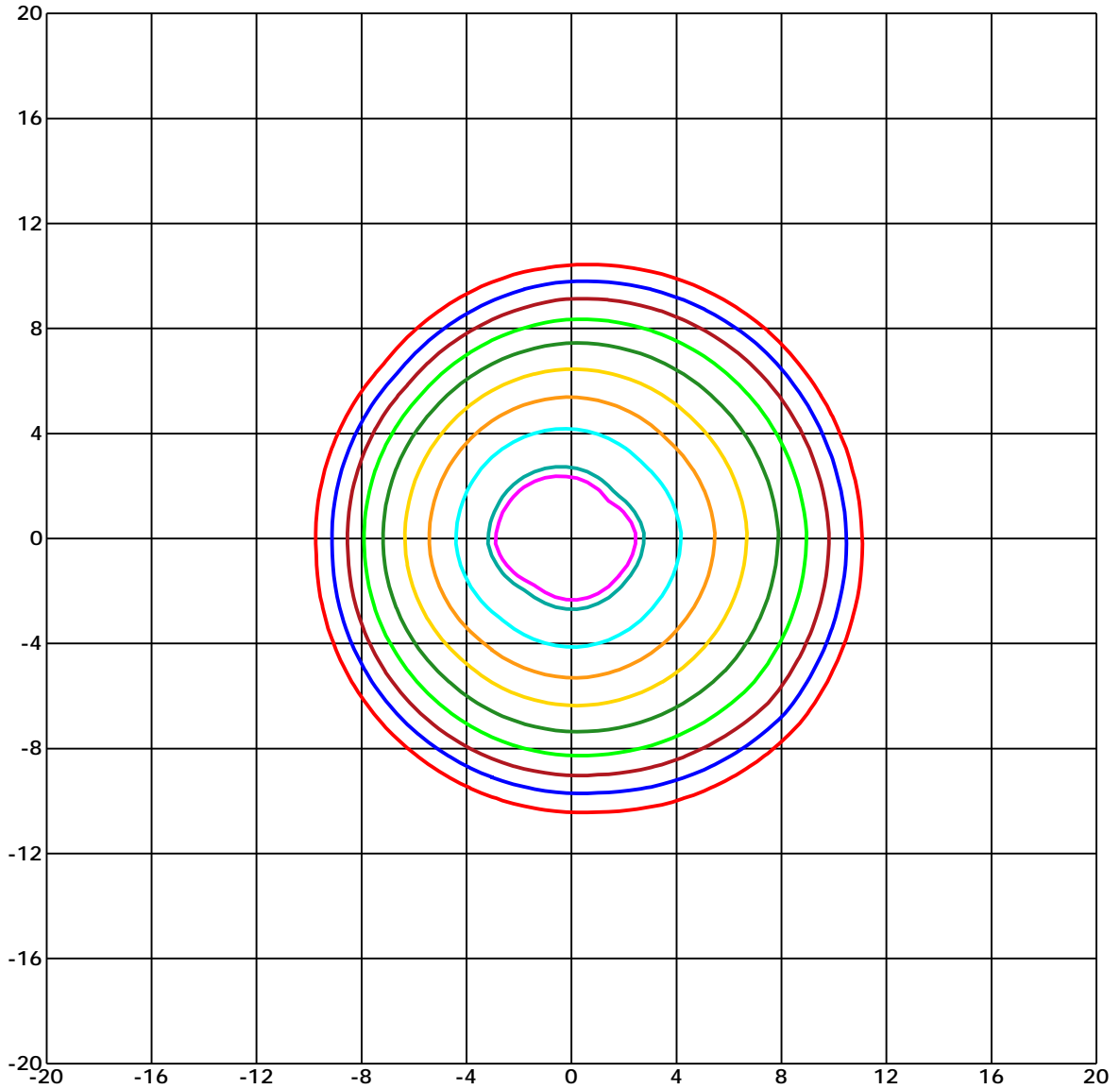
Unit of intensity:cd Imax(100%): 9664.486 cd

- | | |
|---------------------|---------------------|
| — 9181.262(95%Imax) | — 4832.243(50%Imax) |
| — 8698.037(90%Imax) | — 3865.795(40%Imax) |
| — 7731.589(80%Imax) | — 2899.346(30%Imax) |
| — 6765.14(70%Imax) | — 1932.897(20%Imax) |
| — 5798.692(60%Imax) | — 966.449(10%Imax) |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

ISOLX DIAGRAM



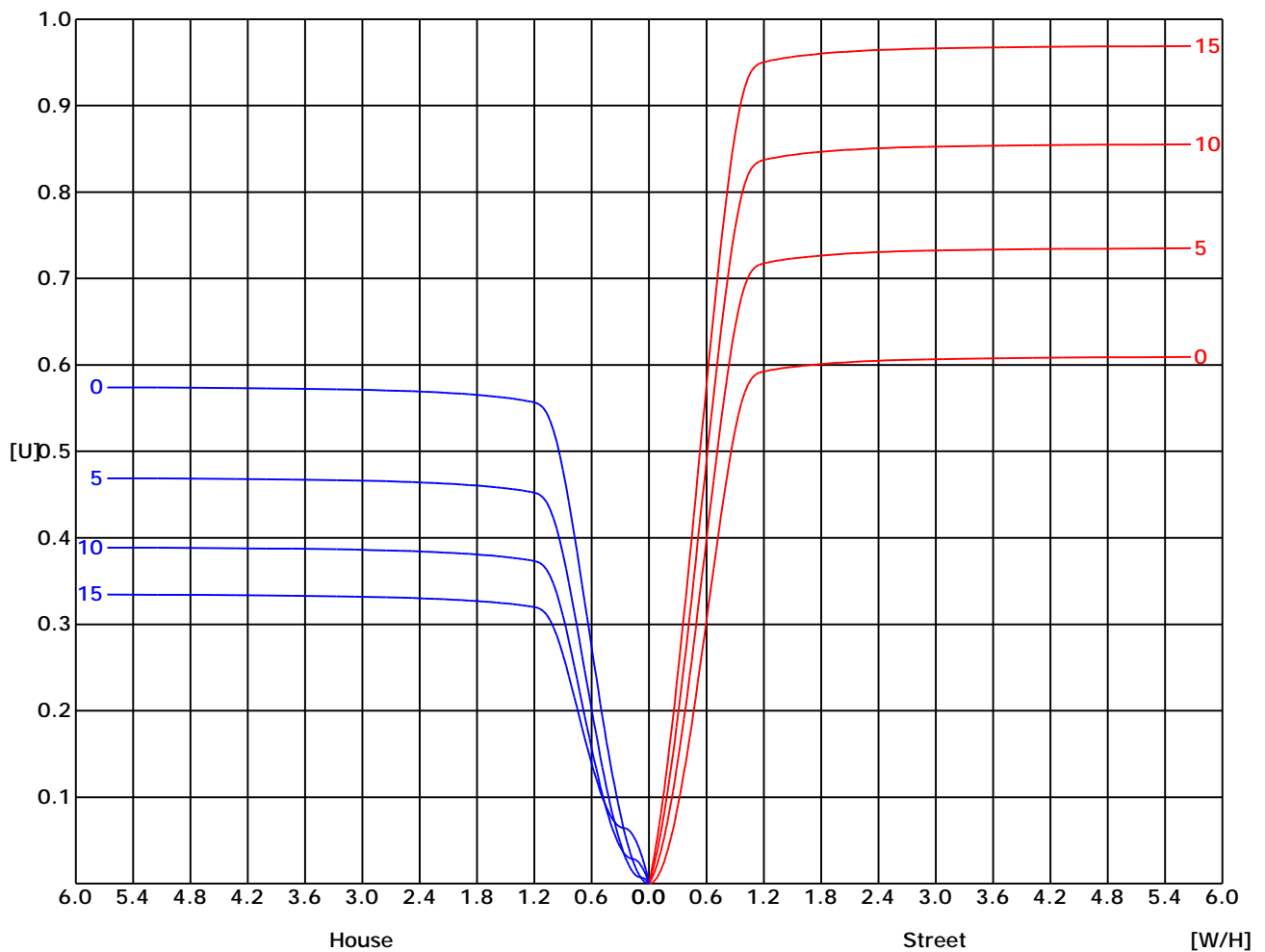
Unit of illumination: lx Height of plane: 10.0(m)/32.81(ft)

- | | |
|------------------|------------------|
| — 85.719(1%Emax) | — 46.587(0%Emax) |
| — 83.856(1%Emax) | — 37.269(0%Emax) |
| — 74.539(1%Emax) | — 27.952(0%Emax) |
| — 65.221(1%Emax) | — 18.635(0%Emax) |
| — 55.904(1%Emax) | — 9.317(0%Emax) |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

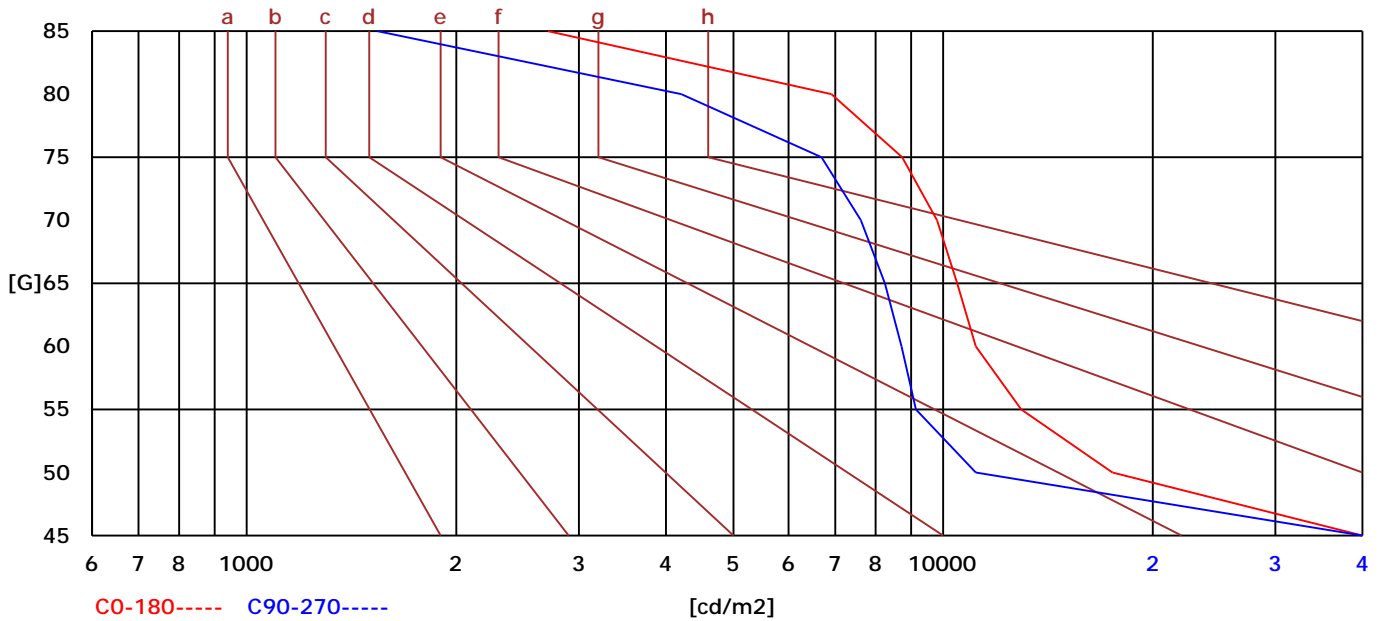


C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	219216	17509	12950	11137	10481	9798	8736	6915	2709
C90	63258	11140	9140	8713	8249	7617	6692	4208	1541
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators: ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

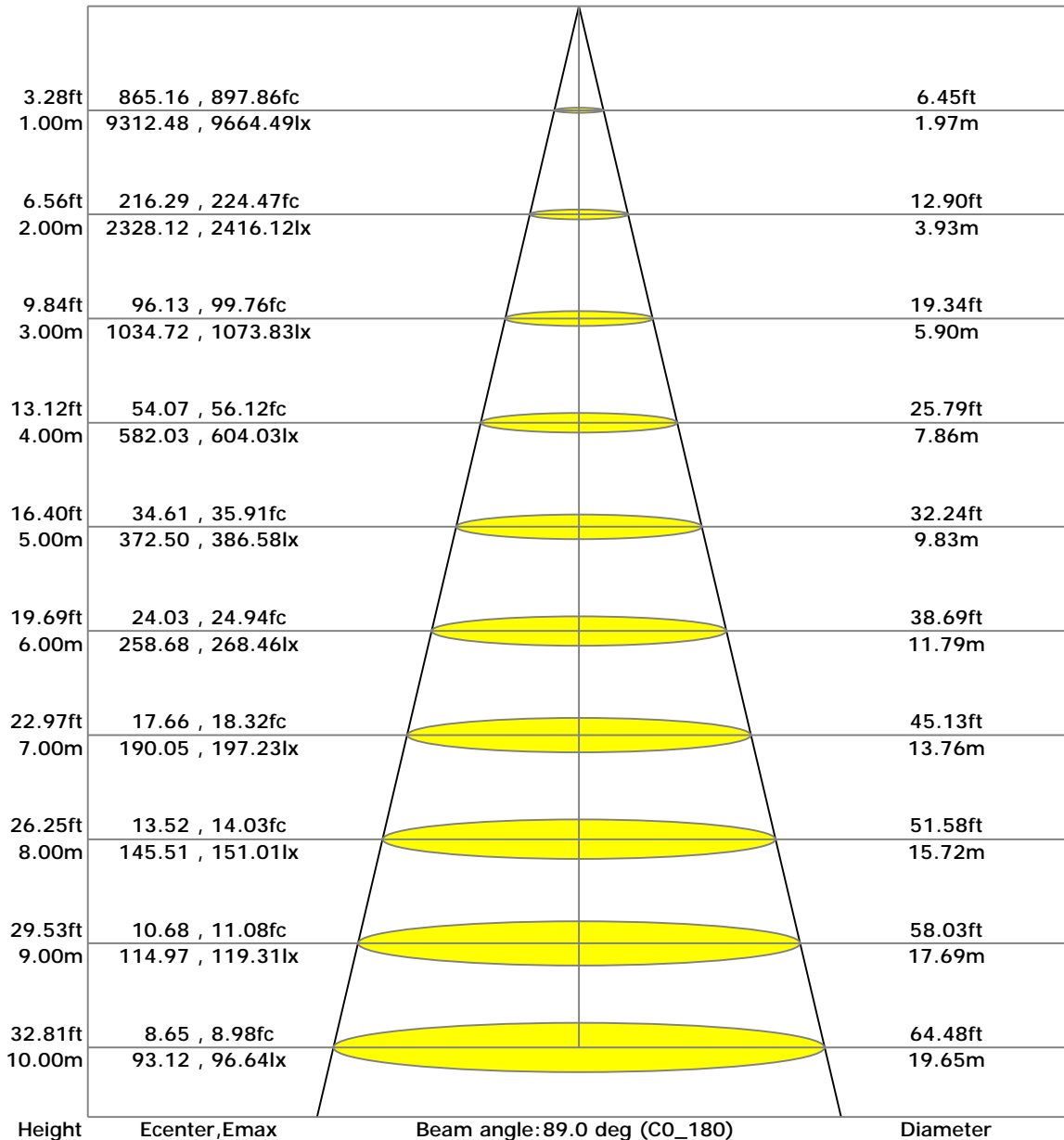
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

LX-DISTANCE DIAGRAM



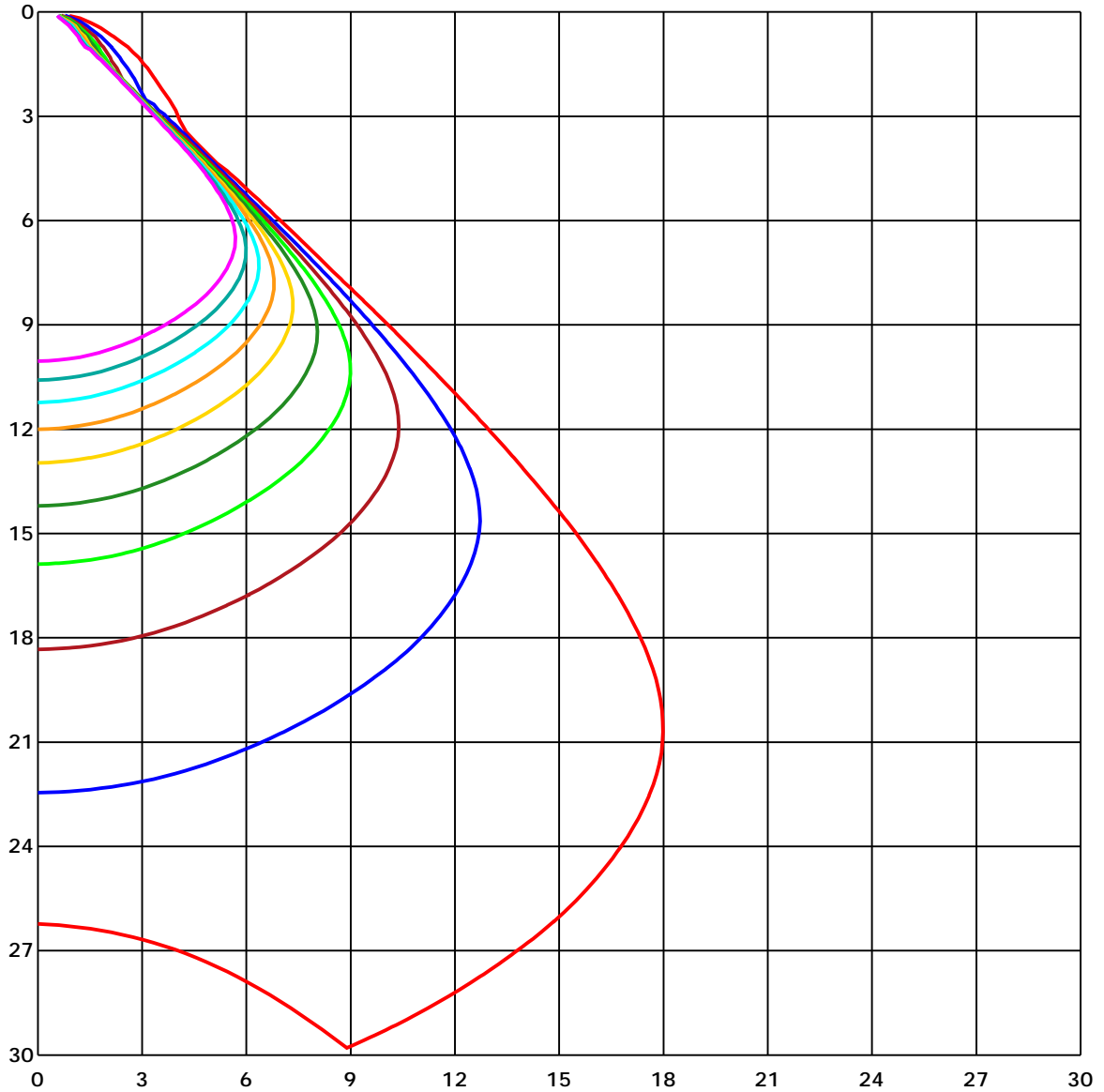
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators: ABUBAKER.LI
 Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	17.55	17.60	17.75	17.79	18.03	16.88	16.94	17.08	17.13	17.37
3H	17.51	17.57	17.72	17.76	18.00	16.85	16.90	17.05	17.10	17.34
4H	17.49	17.54	17.70	17.74	17.99	16.83	16.88	17.04	17.08	17.33
6H	17.47	17.52	17.68	17.72	17.97	16.81	16.86	17.02	17.06	17.31
8H	17.46	17.51	17.67	17.71	17.97	16.80	16.85	17.01	17.05	17.30
12H	17.44	17.50	17.67	17.70	17.96	16.78	16.84	17.00	17.04	17.30
4H 2H	17.56	17.62	17.78	17.82	18.06	16.87	16.92	17.08	17.12	17.37
3H	17.53	17.58	17.75	17.79	18.04	16.83	16.89	17.06	17.09	17.35
4H	17.51	17.56	17.74	17.77	18.03	16.81	16.86	17.04	17.08	17.33
6H	17.48	17.53	17.72	17.75	18.01	16.79	16.84	17.02	17.06	17.32
8H	17.46	17.51	17.71	17.74	18.00	16.77	16.82	17.02	17.05	17.31
12H	17.45	17.49	17.70	17.73	17.99	16.76	16.80	17.01	17.03	17.30
8H 4H	17.57	17.62	17.79	17.83	18.08	16.85	16.90	17.07	17.10	17.36
6H	17.49	17.53	17.74	17.77	18.04	16.76	16.81	17.02	17.04	17.32
8H	17.47	17.51	17.73	17.76	18.03	16.75	16.79	17.01	17.03	17.31
12H	17.45	17.49	17.72	17.74	18.03	16.73	16.77	17.00	17.02	17.30
12H 4H	17.51	17.56	17.76	17.79	18.06	16.78	16.82	17.03	17.05	17.32
6H	17.48	17.52	17.74	17.77	18.04	16.75	16.79	17.01	17.03	17.31

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|----------|----------|
| — 92.332 | — 46.166 |
| — 83.099 | — 36.933 |
| — 73.866 | — 27.7 |
| — 64.633 | — 18.466 |
| — 55.399 | — 9.233 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators: ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/5/17 14:14:36

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9312.48	8992.5	9078.1	9185.11	9312.48	8992.5	9078.1	9185.11	9312.48	
G1	9306.45	8986.6	9076.55	9191.42	9321.59	9000.07	9081.03	9180.88	9306.45	
G2	9302.06	8981.83	9076.43	9200.62	9332.75	9007.6	9084.82	9178.35	9302.06	
G3	9299.33	8978.98	9077.69	9210.1	9345.4	9016.68	9089.94	9176.81	9299.33	
G4	9297.62	8978.58	9079.97	9221.83	9360.59	9026.57	9096.34	9175.75	9297.62	
G5	9296.68	8978.82	9084.0	9235.54	9376.54	9036.99	9104.03	9175.3	9296.68	
G6	9296.52	8980.69	9092.02	9250.65	9394.62	9048.83	9113.51	9174.65	9296.52	
G7	9297.13	8984.03	9104.4	9267.13	9414.81	9061.33	9123.93	9173.59	9297.13	
G8	9297.78	8989.4	9118.6	9285.0	9436.83	9074.72	9136.31	9171.56	9297.78	
G9	9297.66	8996.57	9135.33	9304.7	9459.62	9089.94	9150.15	9170.46	9297.66	
G10	9297.5	9004.3	9154.54	9325.79	9482.17	9107.12	9163.86	9169.93	9297.5	
G11	9297.5	9012.28	9172.78	9347.07	9504.07	9125.4	9178.19	9170.13	9297.5	
G12	9297.82	9020.79	9190.2	9370.85	9525.12	9143.84	9192.19	9172.21	9297.82	
G13	9298.11	9030.27	9206.85	9393.31	9545.06	9162.89	9207.42	9175.59	9298.11	
G14	9300.06	9040.85	9223.82	9416.11	9563.3	9182.1	9221.95	9181.65	9300.06	
G15	9303.77	9052.46	9243.48	9439.6	9580.19	9199.81	9237.7	9189.06	9303.77	
G16	9310.77	9065.36	9264.93	9462.72	9594.96	9217.47	9254.55	9199.03	9310.77	
G17	9319.35	9080.58	9288.22	9483.92	9607.5	9233.96	9271.93	9211.57	9319.35	
G18	9330.43	9097.68	9311.74	9505.33	9617.76	9250.08	9290.41	9226.22	9330.43	
G19	9344.18	9116.4	9333.89	9525.44	9627.41	9264.08	9308.45	9241.32	9344.18	
G20	9361.65	9136.47	9355.3	9543.39	9636.03	9277.47	9327.45	9256.55	9361.65	
G21	9379.07	9157.07	9377.07	9558.78	9644.09	9288.91	9345.4	9271.65	9379.07	
G22	9399.95	9178.15	9395.27	9570.75	9649.02	9297.46	9361.24	9286.79	9399.95	
G23	9422.21	9198.38	9415.74	9576.2	9650.04	9302.01	9374.67	9303.36	9422.21	
G24	9446.96	9221.09	9437.6	9577.05	9645.85	9302.54	9385.01	9320.98	9446.96	
G25	9472.32	9243.52	9457.42	9573.55	9634.98	9298.84	9392.66	9338.65	9472.32	
G26	9499.35	9266.4	9470.57	9563.58	9613.93	9289.84	9397.55	9355.42	9499.35	
G27	9527.8	9288.91	9477.33	9546.44	9583.24	9275.03	9397.26	9371.25	9527.8	
G28	9558.53	9310.52	9478.79	9521.41	9544.33	9251.62	9391.08	9387.41	9558.53	
G29	9588.82	9333.36	9470.12	9483.31	9497.4	9219.3	9380.0	9404.87	9588.82	
G30	9615.93	9351.39	9447.82	9432.02	9434.18	9176.08	9358.59	9420.99	9615.93	
G31	9637.5	9364.13	9419.12	9371.09	9356.4	9118.4	9325.87	9433.9	9637.5	
G32	9653.13	9370.64	9382.28	9289.52	9257.0	9051.07	9277.59	9443.67	9653.13	
G33	9661.56	9369.75	9319.44	9173.35	9133.05	8966.45	9217.1	9447.7	9661.56	
G34	9664.49	9356.35	9254.15	9020.34	8979.76	8859.52	9148.23	9442.61	9664.49	
G35	9660.91	9326.84	9159.18	8825.08	8783.89	8728.41	9052.13	9429.05	9660.91	
G36	9649.3	9279.14	9036.05	8576.58	8538.52	8564.12	8932.58	9405.69	9649.3	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators: ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/5/17 14:14:36

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	9619.35	9207.17	8882.64	8267.47	8224.45	8361.82	8771.72	9372.31	9619.35	
G38	9570.3	9105.05	8686.89	7879.6	7823.39	8108.85	8563.19	9319.8	9570.3	
G39	9497.76	8956.19	8436.48	7389.03	7316.66	7780.36	8319.7	9230.94	9497.76	
G40	9382.85	8752.46	8113.57	6765.44	6682.97	7366.23	7999.72	9101.79	9382.85	
G41	9201.48	8483.08	7683.69	5994.38	5903.52	6821.37	7546.23	8918.58	9201.48	
G42	8939.01	8129.52	7126.98	5079.3	4999.64	6117.06	6934.08	8672.15	8939.01	
G43	8554.48	7674.9	6416.11	4027.5	3970.96	5233.28	6166.96	8318.56	8554.48	
G44	7986.33	7034.62	5509.3	2881.18	2798.31	4204.6	5251.93	7836.41	7986.33	
G45	7194.99	6200.38	4285.81	1789.2	1639.61	3042.21	4252.02	7142.93	7194.99	
G46	6090.03	5056.55	2888.59	936.65	804.24	1973.06	3135.95	6203.19	6090.03	
G47	4590.93	3659.04	1703.32	508.44	428.25	1052.41	1982.39	4918.07	4590.93	
G48	2891.84	2085.21	853.61	354.78	342.28	529.85	1060.84	3435.29	2891.84	
G49	1266.97	960.05	452.27	307.93	296.78	338.74	544.95	1964.92	1266.97	
G50	502.17	450.19	321.77	286.44	274.18	293.56	343.06	911.94	502.17	
G51	442.66	344.32	292.3	269.71	258.31	275.89	294.7	458.7	442.66	
G52	383.15	332.23	276.34	253.63	241.7	262.54	274.31	362.15	383.15	
G53	392.31	330.97	262.46	236.78	225.58	250.66	261.61	351.36	392.31	
G54	384.98	318.59	241.42	220.41	215.33	235.43	248.83	339.56	384.98	
G55	374.03	297.1	225.75	209.71	207.47	221.02	233.72	325.27	374.03	
G56	350.79	274.88	213.29	201.24	200.27	210.89	221.31	299.63	350.79	
G57	321.2	257.54	204.7	193.02	193.71	202.79	214.06	280.7	321.2	
G58	303.49	246.95	194.93	186.67	189.85	195.71	208.08	267.02	303.49	
G59	291.65	235.23	189.85	178.24	183.5	191.11	201.93	255.95	291.65	
G60	282.41	222.73	179.47	174.26	177.06	184.27	196.68	247.44	282.41	
G61	271.58	210.73	174.99	167.54	173.28	176.54	191.72	238.12	271.58	
G62	259.94	201.98	164.32	159.03	168.03	172.26	186.63	226.32	259.94	
G63	251.59	193.1	157.24	152.93	159.11	165.87	177.06	217.93	251.59	
G64	241.09	185.98	149.83	144.74	153.7	158.54	171.24	208.37	241.09	
G65	232.38	177.19	141.37	139.45	145.03	154.11	162.0	200.75	232.38	
G66	220.62	171.24	133.71	132.41	137.26	147.35	156.39	193.26	220.62	
G67	210.28	160.5	122.97	125.57	127.97	142.42	146.25	187.85	210.28	
G68	200.92	152.8	113.0	119.55	118.41	136.4	137.66	178.98	200.92	
G69	191.35	143.65	103.71	111.25	105.22	128.91	128.99	173.16	191.35	
G70	177.27	134.04	93.91	104.2	95.57	122.03	121.14	162.25	177.27	
G71	166.32	124.68	86.94	96.59	89.47	116.78	111.61	153.94	166.32	
G72	154.43	114.09	79.66	90.16	84.1	110.43	104.53	143.04	154.43	
G73	143.93	107.38	72.45	83.16	78.76	104.69	97.16	136.77	143.93	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators: ABUBAKER.LI

Test Date: 2023/5/17 14:14:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

