

Report No.:

Test Time: 2023/6/7 17:20:19

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: WV-KC1286-160
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

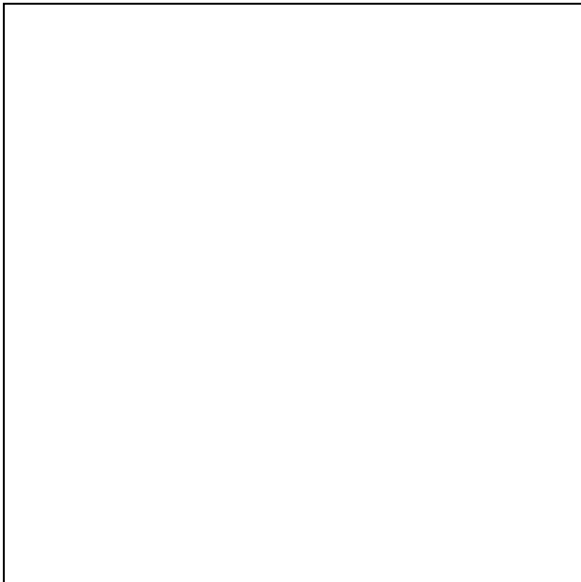
Voltage(V): 239.60 V
Current(A): 0.0590 A
Power(W): 7.98 W
Power Factor: 0.5630
Lamp Luminous Flux: 431.64

Photometric Results

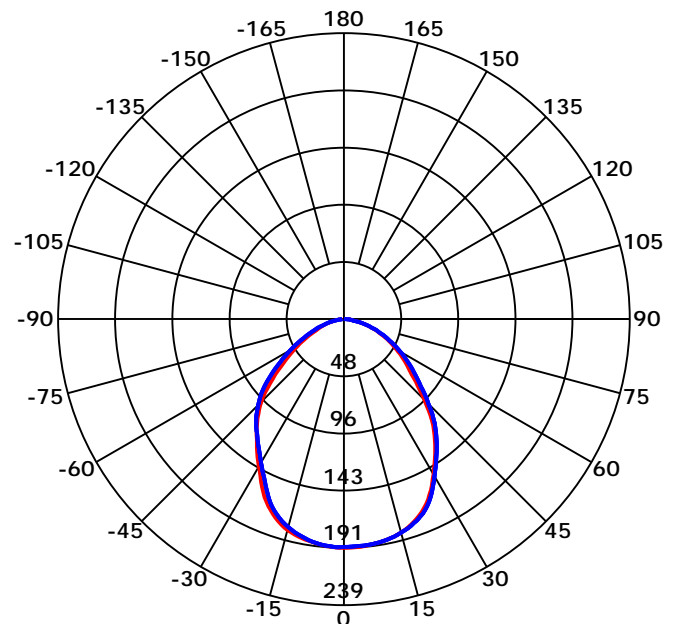
CIE Class: Direct
Luminaire Luminous Flux: 431.6375 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 54.09 lm/W
Beam Angle(50%) C0-180,C90-270: 90.4,93.4
Field Angle(10%) C0-180,C90-270: 147.9,149.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 191.19 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 191.19 cd
Effective Luminous Flux: 415.94 lm
ERP(φ_{use})(120deg): 366.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.4 deg,93.4 deg

C0-180 — C90-270 —

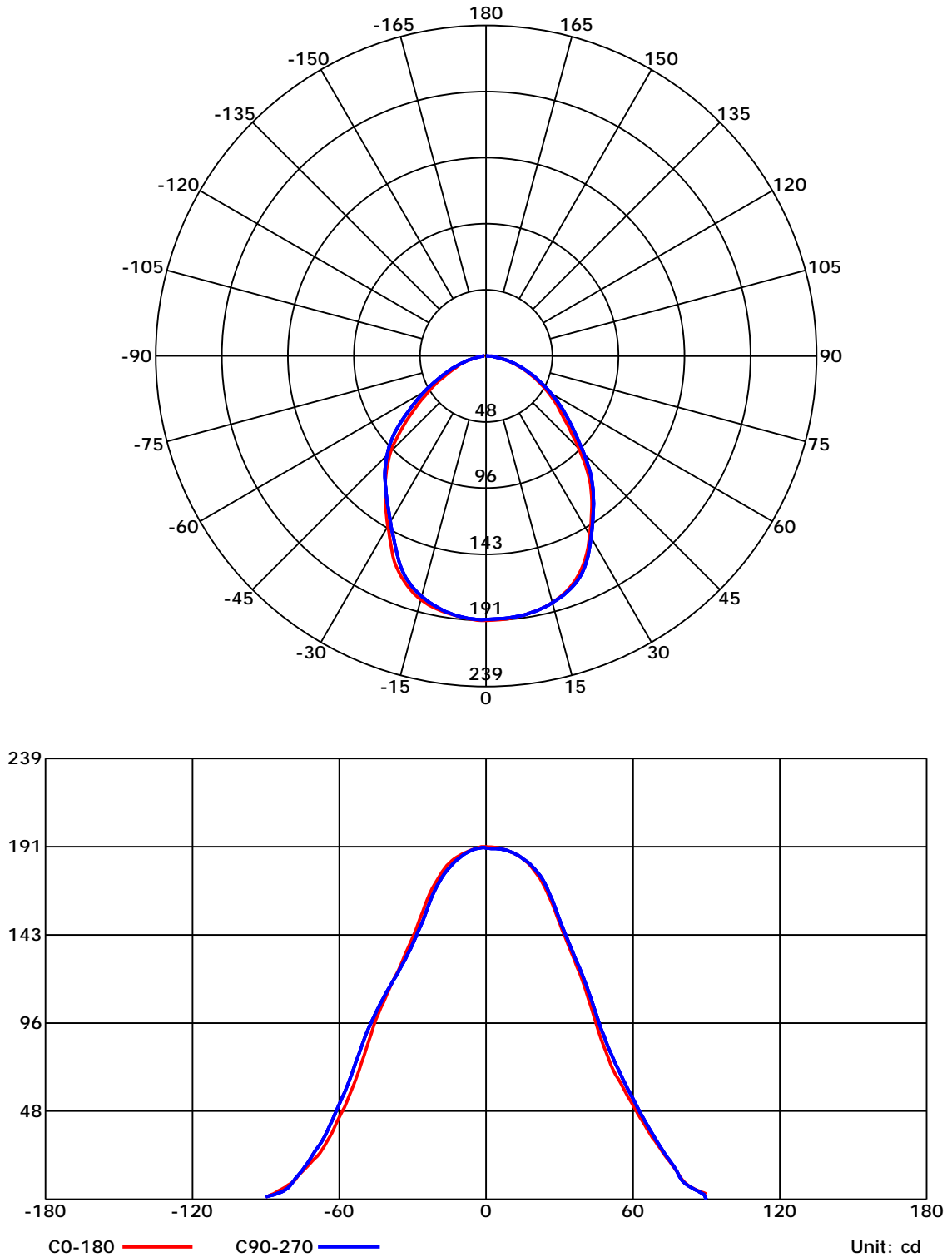
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

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.:

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Luminous Intensity Distribution Curve



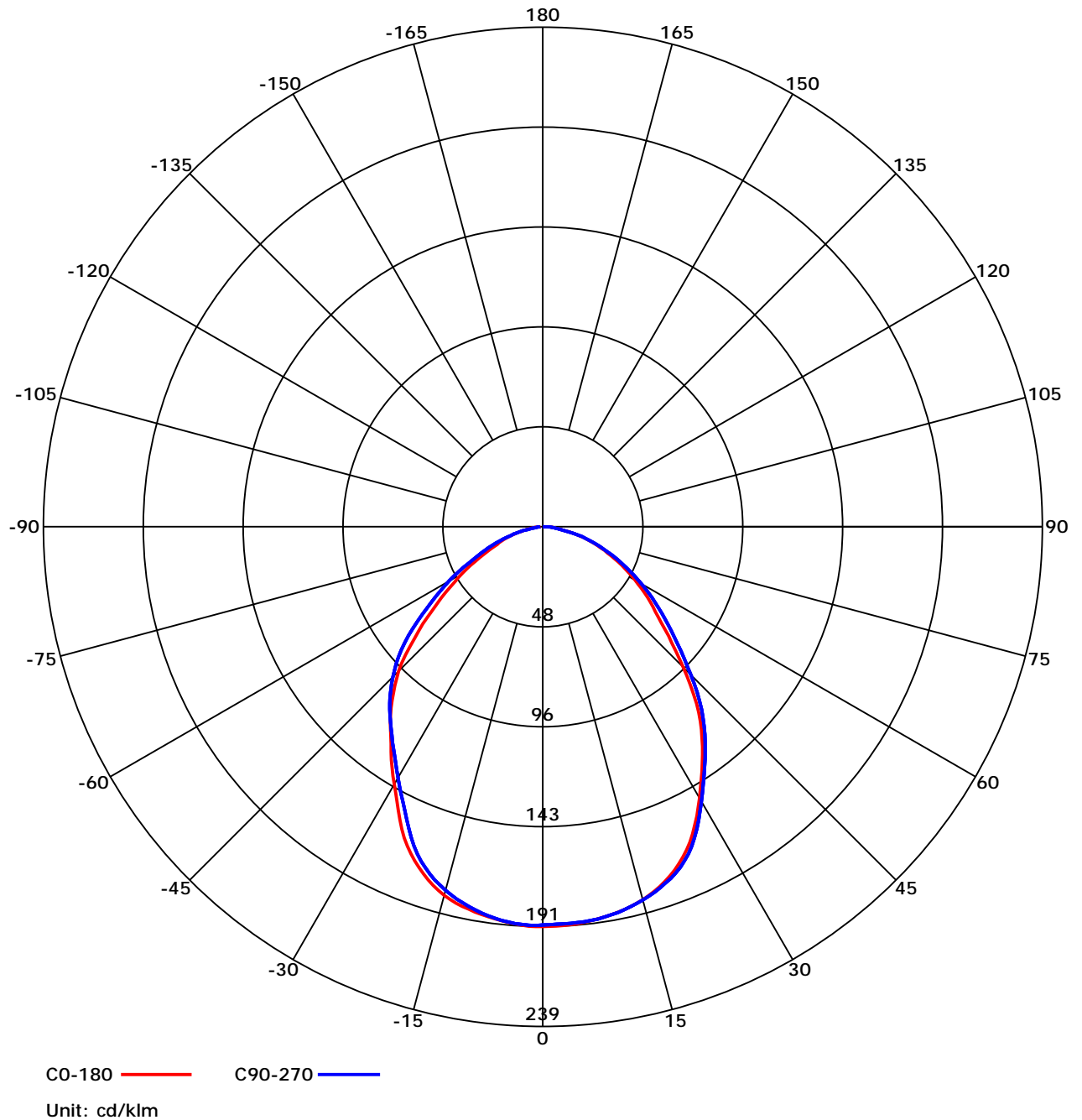
C Range: 0 - 360 Deg
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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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Test Date: 2023/6/7 17:20:19

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Humidity:
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Remarks:

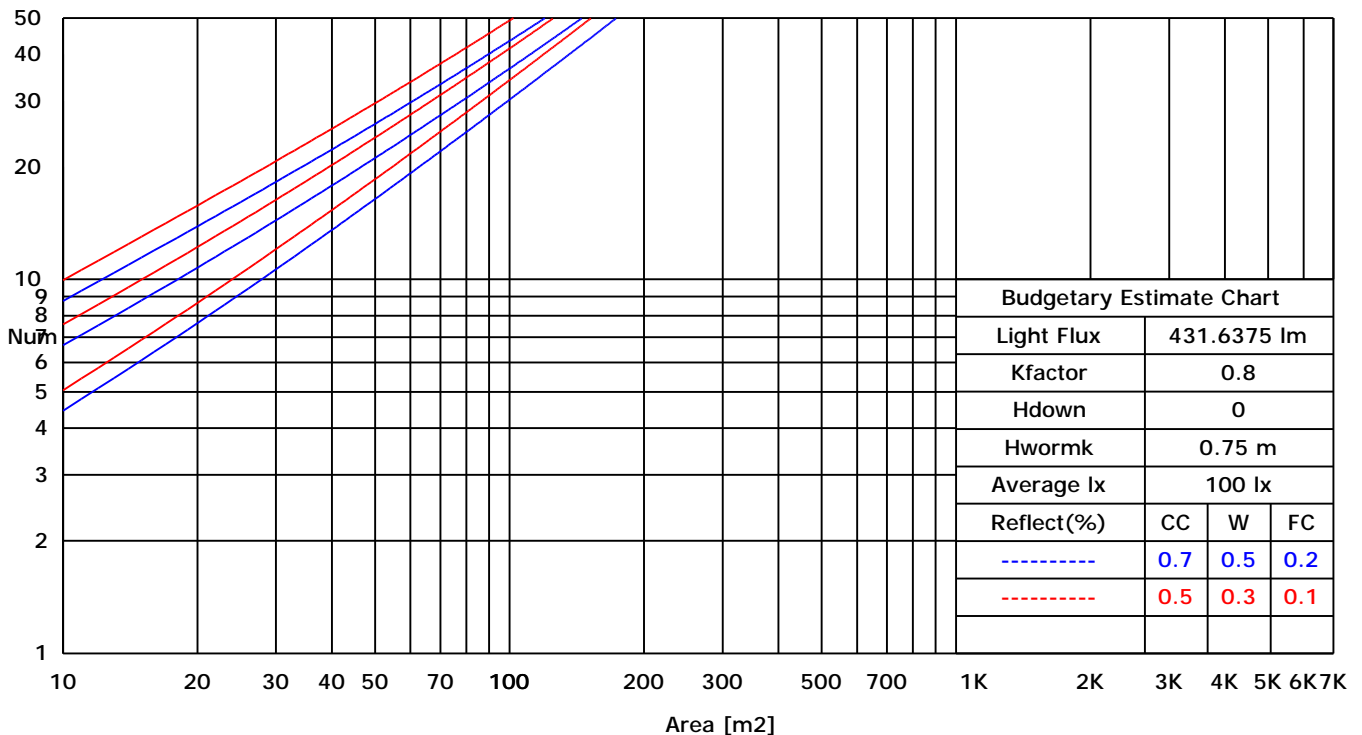
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UTILIZATION FACTORS TABLE

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	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.97	0.95	0.93	0.96	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.80	0.78	0.73
3	0.87	0.85	0.84	0.87	0.84	0.82	0.85	0.81	0.79	0.82	0.78	0.75	0.78	0.73	0.70	0.65
4	0.79	0.77	0.76	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.73	0.70	0.69	0.72	0.69	0.67	0.71	0.67	0.64	0.70	0.65	0.61	0.67	0.62	0.58	0.54
6	0.67	0.65	0.63	0.67	0.64	0.62	0.66	0.62	0.59	0.65	0.60	0.56	0.63	0.57	0.53	0.49
7	0.62	0.60	0.58	0.62	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.52	0.59	0.53	0.49	0.46
8	0.57	0.55	0.54	0.57	0.55	0.53	0.57	0.53	0.51	0.57	0.52	0.48	0.55	0.50	0.46	0.42
9	0.54	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.45	0.52	0.47	0.43	0.39
10	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.47	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.37

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



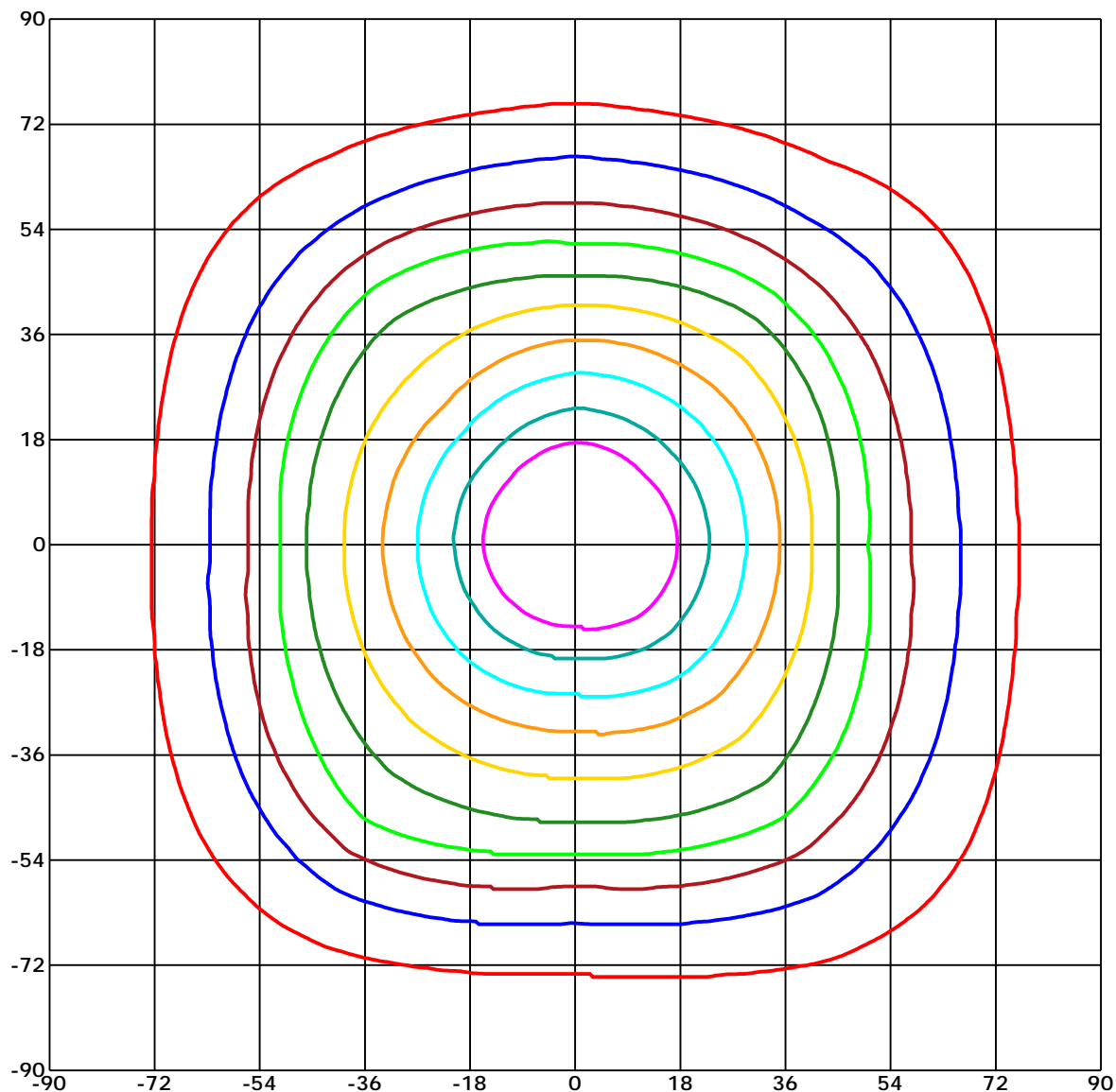
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/6/7 17:20:19

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.:

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ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 191.189 cd

— 181.629(95%I_{max})
— 172.07(90%I_{max})
— 152.951(80%I_{max})
— 133.832(70%I_{max})
— 114.713(60%I_{max})

— 95.594(50%I_{max})
— 76.475(40%I_{max})
— 57.357(30%I_{max})
— 38.238(20%I_{max})
— 19.119(10%I_{max})

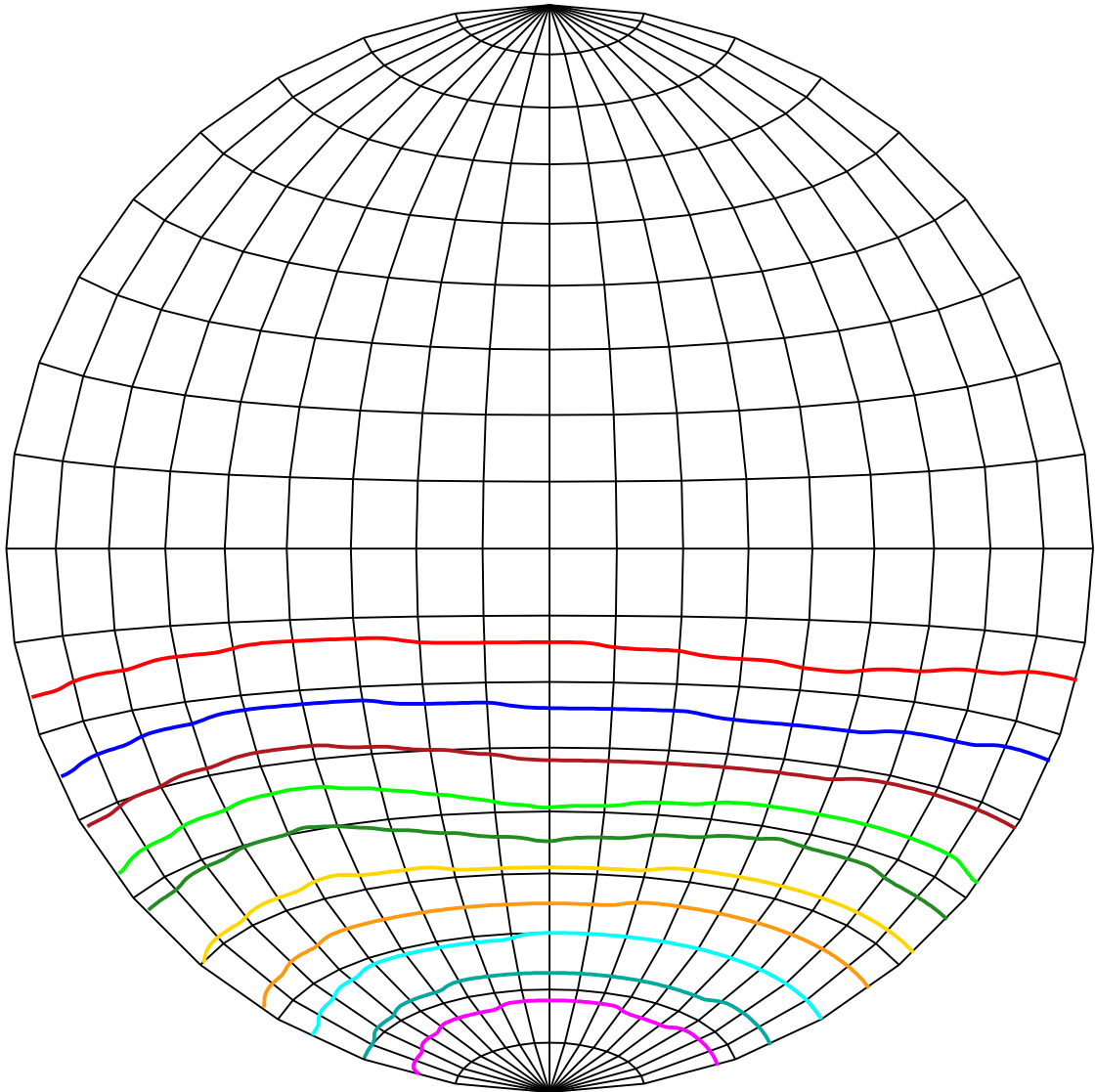
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

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.:

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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 191.189 cd

181.629(95%Imax)	95.594(50%Imax)
172.07(90%Imax)	76.475(40%Imax)
152.951(80%Imax)	57.357(30%Imax)
133.832(70%Imax)	38.238(20%Imax)
114.713(60%Imax)	19.119(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/6/7 17:20:19

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

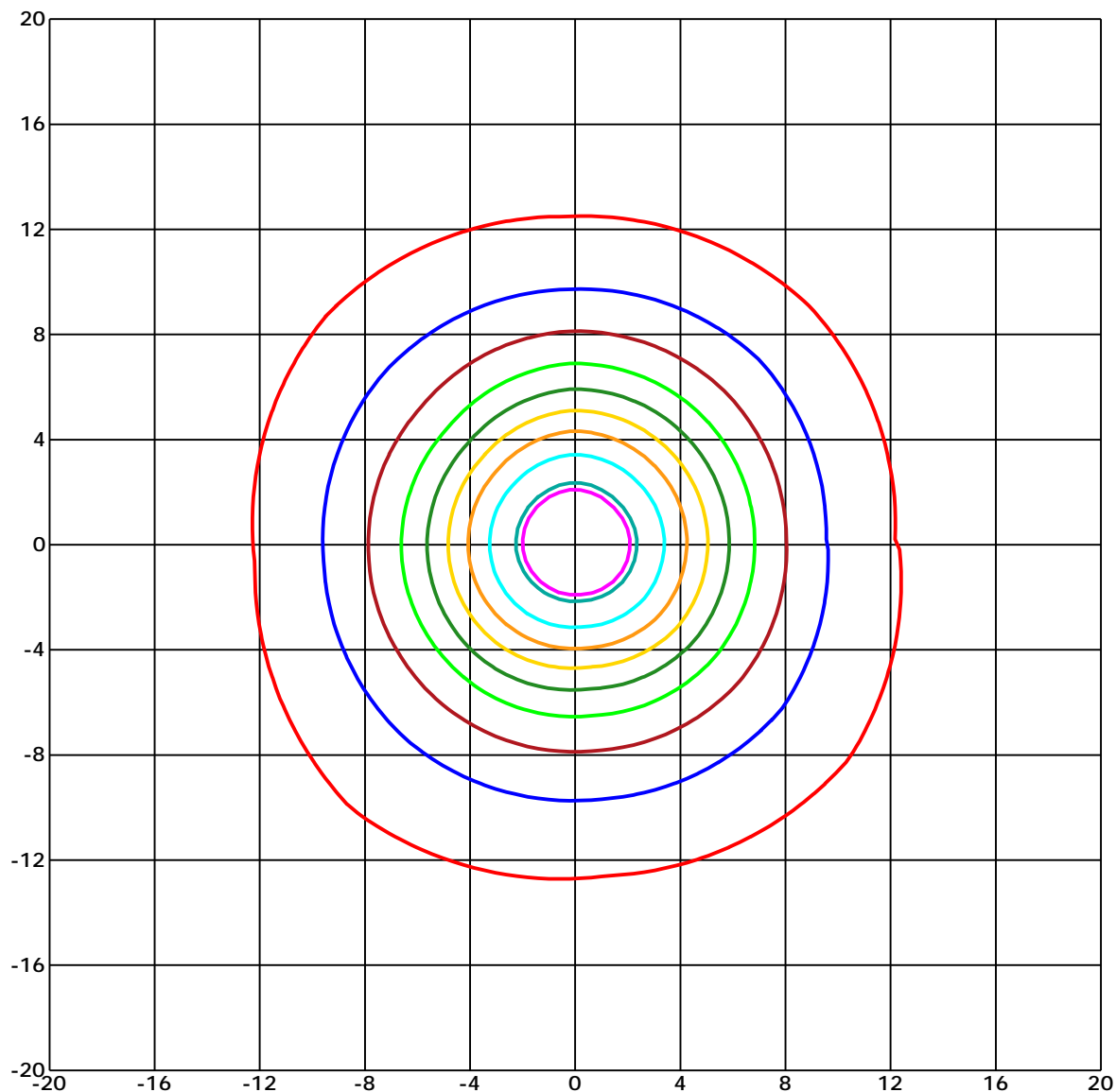
Test Distance: 6.38 m

Remarks:

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ISOLX DIAGRAM



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

1.759(1%Emax)	0.956(1%Emax)
1.721(1%Emax)	0.765(0%Emax)
1.53(1%Emax)	0.574(0%Emax)
1.338(1%Emax)	0.382(0%Emax)
1.147(1%Emax)	0.191(0%Emax)

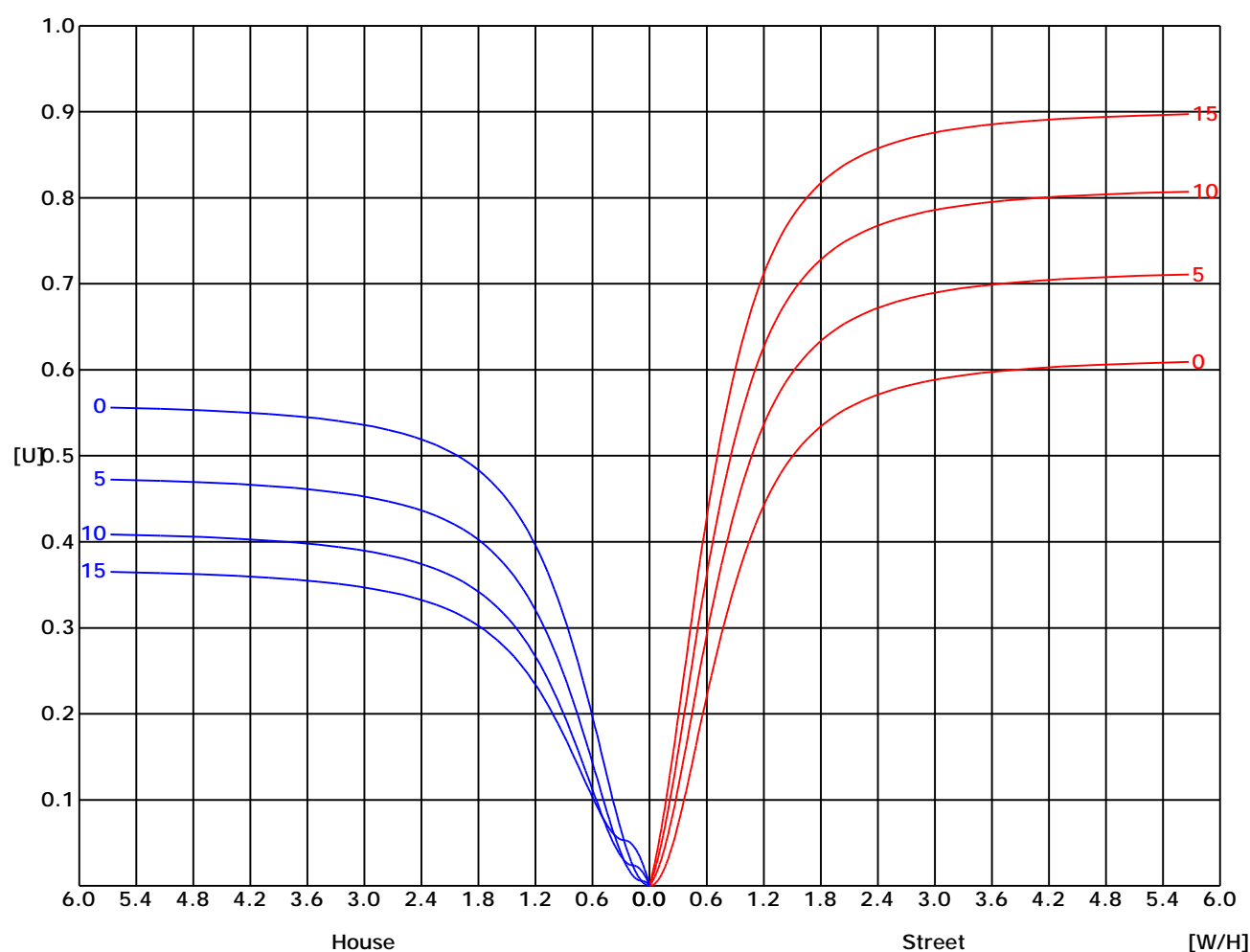
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/6/7 17:20:19

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

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UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

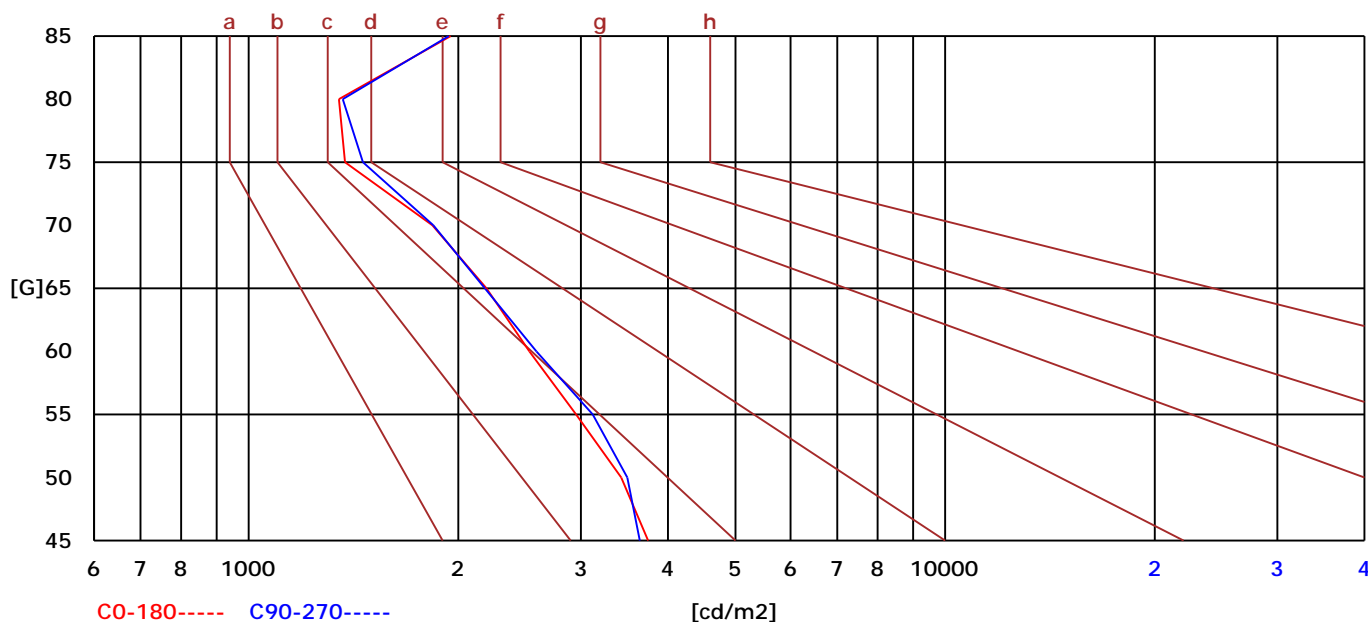
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3746	3427	2952	2530	2196	1836	1376	1348	1950
C90	3644	3497	3119	2591	2184	1842	1459	1365	1938
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



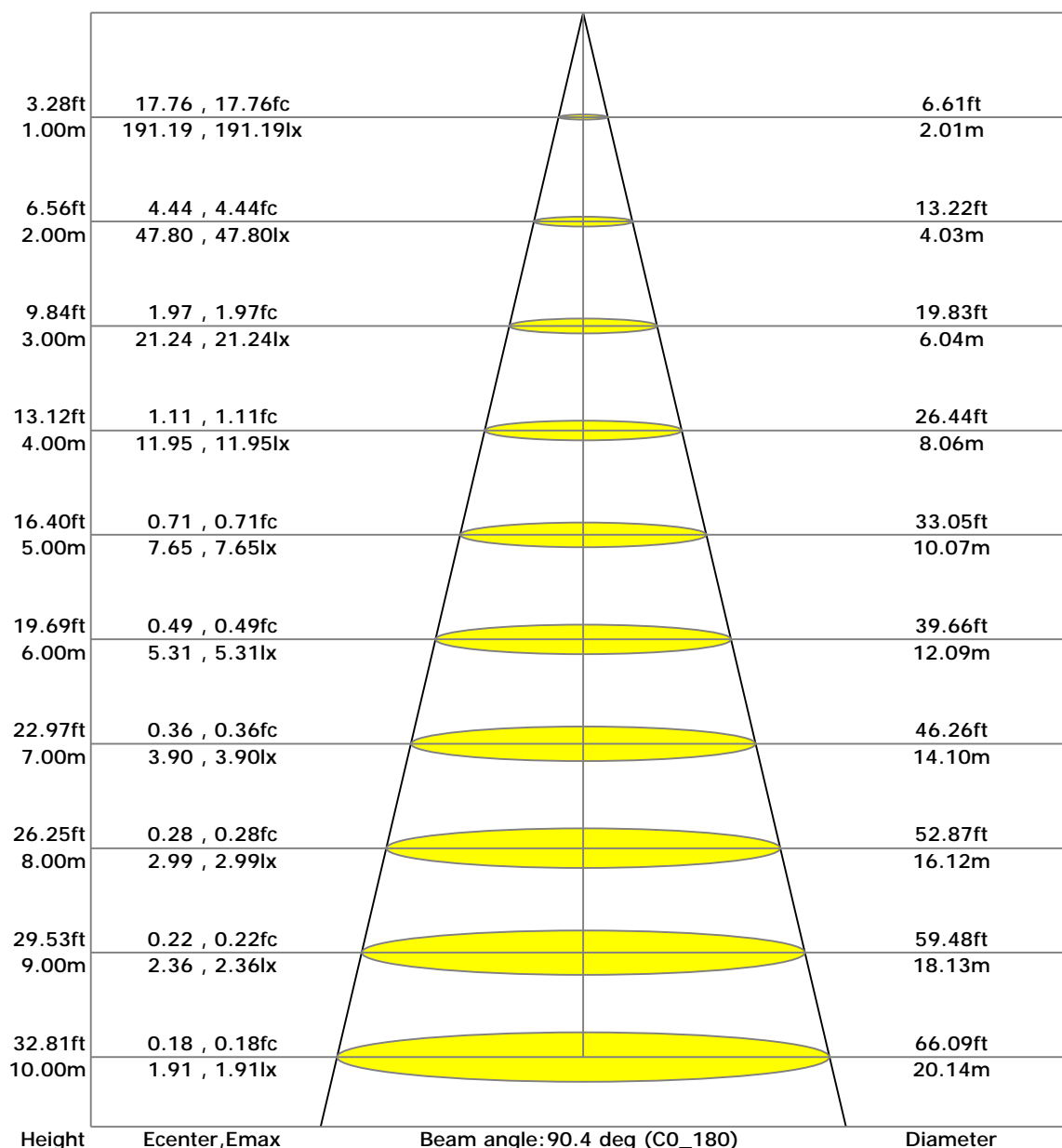
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/6/7 17:20:19

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

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/6/7 17:20:19

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.:

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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	17.38	17.46	17.59	17.64	17.89	17.55	17.62	17.75	17.81	18.05
3H	17.46	17.52	17.66	17.72	17.96	17.61	17.68	17.81	17.87	18.12
4H	17.45	17.52	17.66	17.72	17.97	17.60	17.67	17.81	17.87	18.12
6H	17.43	17.50	17.65	17.70	17.95	17.58	17.65	17.80	17.85	18.10
8H	17.42	17.48	17.64	17.69	17.94	17.57	17.63	17.79	17.84	18.09
12H	17.40	17.47	17.62	17.67	17.93	17.55	17.62	17.77	17.82	18.08
4H 2H	19.20	19.27	19.41	19.46	19.71	19.38	19.45	19.59	19.64	19.89
3H	19.35	19.41	19.57	19.62	19.87	19.52	19.58	19.74	19.79	20.04
4H	19.37	19.43	19.60	19.64	19.90	19.54	19.60	19.77	19.81	20.07
6H	19.36	19.42	19.60	19.64	19.91	19.53	19.59	19.77	19.81	20.07
8H	19.35	19.41	19.60	19.63	19.90	19.52	19.57	19.76	19.80	20.07
12H	19.34	19.39	19.59	19.62	19.89	19.50	19.56	19.75	19.79	20.06
8H 4H	19.64	19.71	19.86	19.91	20.16	19.79	19.85	20.01	20.06	20.31
6H	20.03	20.07	20.28	20.31	20.59	20.15	20.20	20.40	20.43	20.71
8H	20.04	20.09	20.30	20.33	20.61	20.16	20.21	20.42	20.45	20.73
12H	20.05	20.09	20.31	20.34	20.62	20.17	20.21	20.43	20.46	20.74
12H 4H	20.13	20.18	20.38	20.41	20.68	20.24	20.29	20.49	20.52	20.79
6H	20.24	20.28	20.50	20.53	20.80	20.34	20.39	20.60	20.63	20.91

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/6/7 17:20:19

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

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ZONAL LUMINOUS FLUX TABLE

[illegible]

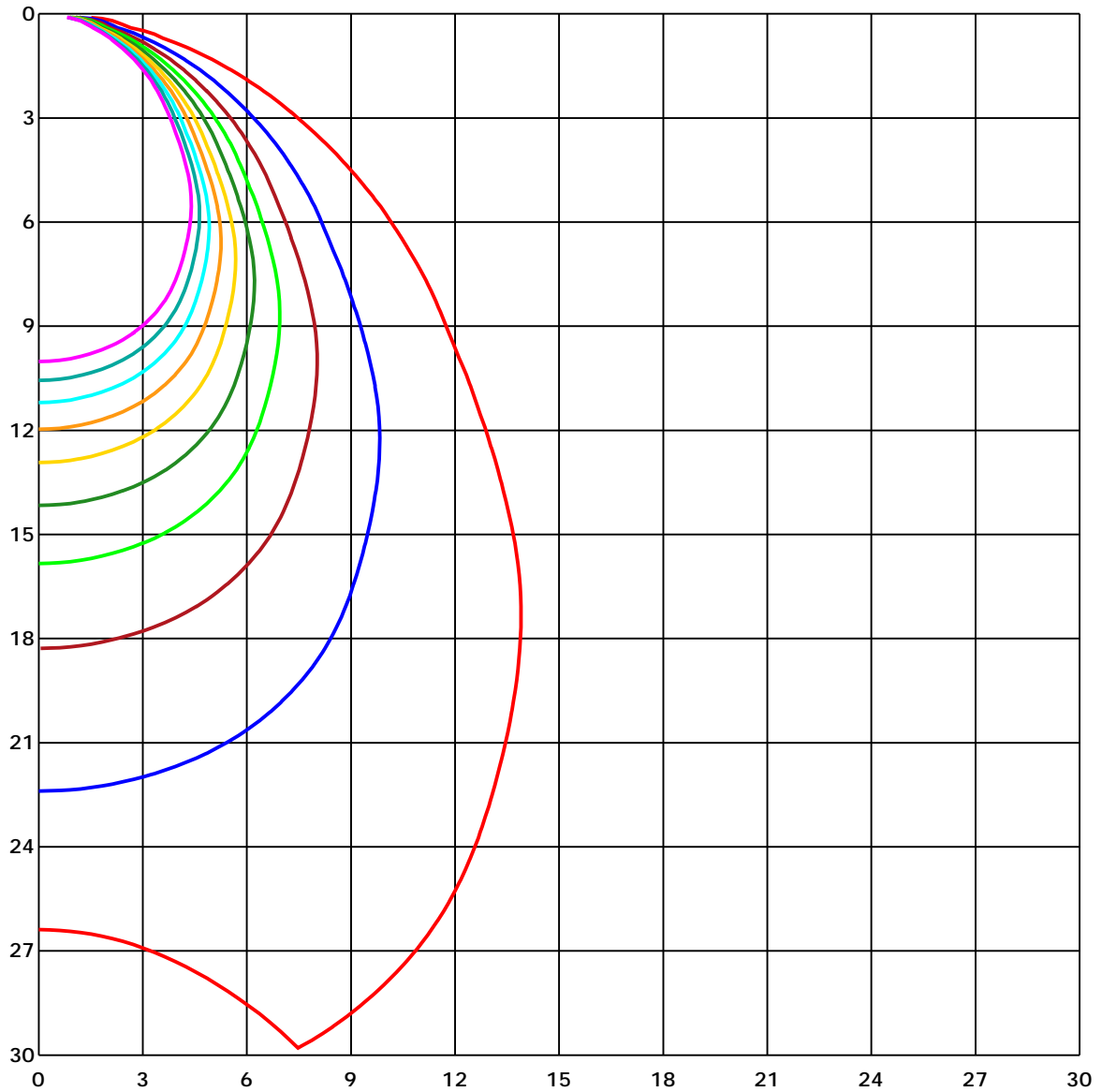
C Range: 0 - 360 Deg
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Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity:
Test Distance: 6.38 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

1.907
1.716
1.525
1.335
1.144

0.953
0.763
0.572
0.381
0.191

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	191.19	190.21	190.46	190.7	191.19	190.21	190.46	190.7	191.19	
G1	191.11	190.05	190.33	190.58	191.19	190.25	190.74	190.86	191.11	
G2	191.03	189.93	190.17	190.46	191.15	190.17	190.66	190.94	191.03	
G3	190.94	190.05	190.17	190.17	190.74	190.01	190.37	190.78	190.94	
G4	190.78	189.8	190.13	190.01	190.37	189.8	190.17	190.54	190.78	
G5	190.58	189.6	190.01	189.76	189.93	189.4	189.68	190.17	190.58	
G6	190.17	189.28	189.85	189.48	189.4	188.95	189.23	189.68	190.17	
G7	189.76	188.91	189.6	189.15	188.87	188.42	188.58	189.19	189.76	
G8	189.36	188.62	189.4	188.75	188.3	187.73	187.85	188.62	189.36	
G9	188.91	188.01	188.91	188.34	187.69	187.04	187.12	188.05	188.91	
G10	188.38	187.44	188.42	187.81	187.12	186.1	186.1	187.4	188.38	
G11	187.81	186.79	187.89	187.12	186.3	185.21	185.04	186.75	187.81	
G12	187.2	186.1	187.2	186.26	185.61	184.23	183.9	186.02	187.2	
G13	186.51	185.33	186.51	185.16	184.72	183.21	182.76	185.25	186.51	
G14	185.53	184.47	185.69	183.98	183.66	182.11	181.38	184.47	185.53	
G15	184.68	183.5	184.72	182.72	182.44	180.89	179.95	183.33	184.68	
G16	183.58	182.48	183.82	181.38	181.01	179.55	178.37	182.11	183.58	
G17	182.32	181.3	182.76	179.91	179.38	178.0	176.62	180.73	182.32	
G18	180.89	180.04	181.62	178.2	177.55	176.13	174.66	179.22	180.89	
G19	179.38	178.65	180.2	176.33	175.52	173.97	172.42	177.55	179.38	
G20	177.63	177.06	178.94	174.26	173.32	171.61	170.23	175.72	177.63	
G21	175.84	175.44	177.39	171.98	171.08	169.09	167.62	173.73	175.84	
G22	173.81	173.52	175.56	169.41	168.6	166.44	164.57	171.53	173.81	
G23	171.57	171.49	173.56	166.68	165.91	163.63	161.31	169.25	171.57	
G24	169.09	169.21	171.2	163.59	162.94	160.74	157.77	166.81	169.09	
G25	166.4	166.56	168.52	160.17	159.56	157.89	154.27	164.28	166.4	
G26	163.35	163.79	165.5	156.63	155.94	154.92	150.81	161.35	163.35	
G27	160.13	160.74	162.29	152.68	152.32	151.79	147.55	158.38	160.13	
G28	156.79	157.65	158.79	148.9	148.69	148.61	144.46	155.08	156.79	
G29	153.21	154.27	155.25	144.91	145.31	145.19	141.49	151.75	153.21	
G30	149.83	150.97	151.75	141.41	142.18	141.69	138.6	148.29	149.83	
G31	146.25	147.47	148.25	137.99	139.17	138.23	135.71	145.19	146.25	
G32	142.91	144.34	144.87	134.81	136.03	135.34	132.94	142.14	142.91	
G33	139.66	141.2	141.61	131.88	133.06	132.29	130.29	139.09	139.66	
G34	136.36	137.91	138.44	128.91	129.93	129.11	127.85	136.12	136.36	
G35	133.1	134.98	135.26	126.02	126.71	126.1	125.57	133.35	133.1	
G36	130.01	131.8	132.13	123.29	123.82	123.94	122.97	130.7	130.01	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

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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: 2023/6/7 17:20:19

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	126.51	128.95	128.99	120.69	121.18	121.58	120.61	128.06	126.51	
G38	123.21	126.1	125.86	118.21	118.57	119.06	118.45	125.45	123.21	
G39	119.71	123.21	122.6	116.01	115.8	116.9	116.25	122.81	119.71	
G40	116.01	120.36	119.26	113.77	112.91	115.11	114.01	120.32	116.01	
G41	112.06	117.47	115.89	111.57	109.9	112.87	111.73	117.96	112.06	
G42	107.87	114.62	112.02	109.41	106.85	110.02	109.33	115.56	107.87	
G43	103.55	111.9	108.15	107.3	103.88	107.87	106.73	113.24	103.55	
G44	99.16	108.97	104.12	105.22	100.74	105.99	104.12	110.96	99.16	
G45	94.92	105.95	100.13	103.06	97.69	103.43	101.52	108.64	94.92	
G46	90.81	102.82	96.23	100.66	94.07	100.95	98.67	106.4	90.81	
G47	86.9	99.4	92.44	98.34	89.79	99.16	95.94	104.16	86.9	
G48	82.91	95.94	88.86	95.78	85.64	96.75	92.85	101.76	82.91	
G49	79.66	92.03	85.28	92.89	81.49	94.15	89.75	99.24	79.66	
G50	76.28	88.13	82.02	89.92	77.46	92.44	86.29	96.18	76.28	
G51	72.78	84.01	79.05	86.66	73.88	89.92	82.63	93.09	72.78	
G52	70.01	79.86	76.12	83.16	69.77	87.68	78.89	89.79	70.01	
G53	67.37	75.67	73.15	79.41	65.98	85.6	75.14	86.46	67.37	
G54	65.17	71.56	70.38	75.47	62.44	82.91	71.35	83.12	65.17	
G55	62.85	67.73	67.53	71.56	59.27	80.76	67.65	79.78	62.85	
G56	60.45	63.91	64.8	67.45	56.09	77.91	64.15	76.56	60.45	
G57	57.92	60.32	62.24	63.38	52.79	75.1	60.81	73.35	57.92	
G58	55.48	56.9	59.55	59.39	49.78	71.76	57.76	70.13	55.48	
G59	53.16	53.65	57.03	55.44	47.14	67.65	54.58	66.76	53.16	
G60	50.96	50.6	54.5	51.82	44.49	63.38	51.61	63.34	50.96	
G61	48.72	47.58	51.94	48.36	41.93	59.55	48.68	59.84	48.72	
G62	46.32	44.73	49.42	45.14	39.08	55.81	45.67	56.29	46.32	
G63	44.04	42.17	46.81	42.21	36.23	51.82	42.62	52.88	44.04	
G64	41.88	39.69	44.37	39.52	33.58	48.23	39.56	49.58	41.88	
G65	39.77	37.12	42.09	36.92	31.42	44.73	36.8	46.36	39.77	
G66	37.45	34.6	39.77	34.48	29.14	41.64	34.19	43.47	37.45	
G67	35.37	32.28	37.57	32.03	27.07	38.38	31.87	40.46	35.37	
G68	33.34	30.08	35.41	29.75	25.07	35.45	29.71	38.02	33.34	
G69	31.55	27.68	33.01	27.52	23.36	32.6	27.84	35.45	31.55	
G70	29.51	25.11	30.85	25.2	22.14	30.08	25.93	33.09	29.51	
G71	27.72	23.12	28.78	23.0	20.84	27.35	23.81	30.61	27.72	
G72	25.73	20.68	26.78	20.84	19.46	24.91	21.65	28.37	25.73	
G73	23.93	18.28	24.79	18.89	17.99	22.55	19.66	26.01	23.93	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/6/7 17:20:19

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: 2023/6/7 17:20:19

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/6/7 17:20:19

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