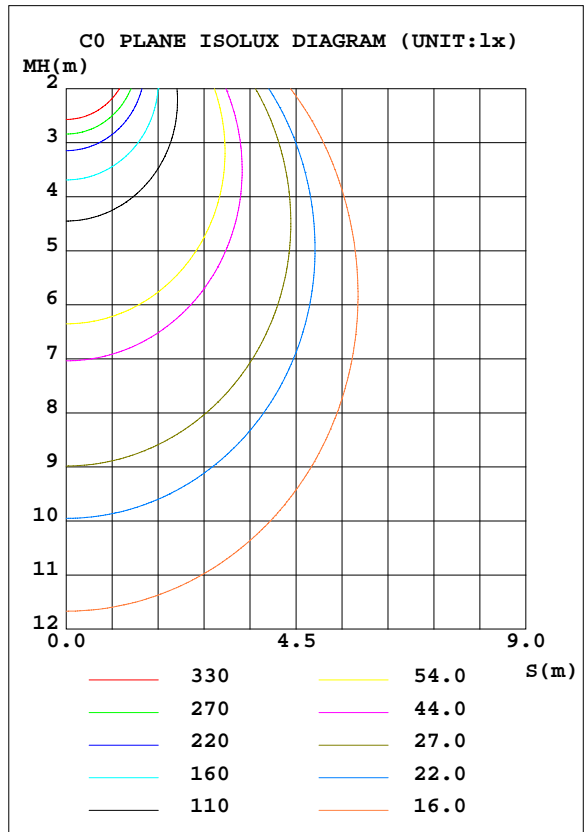
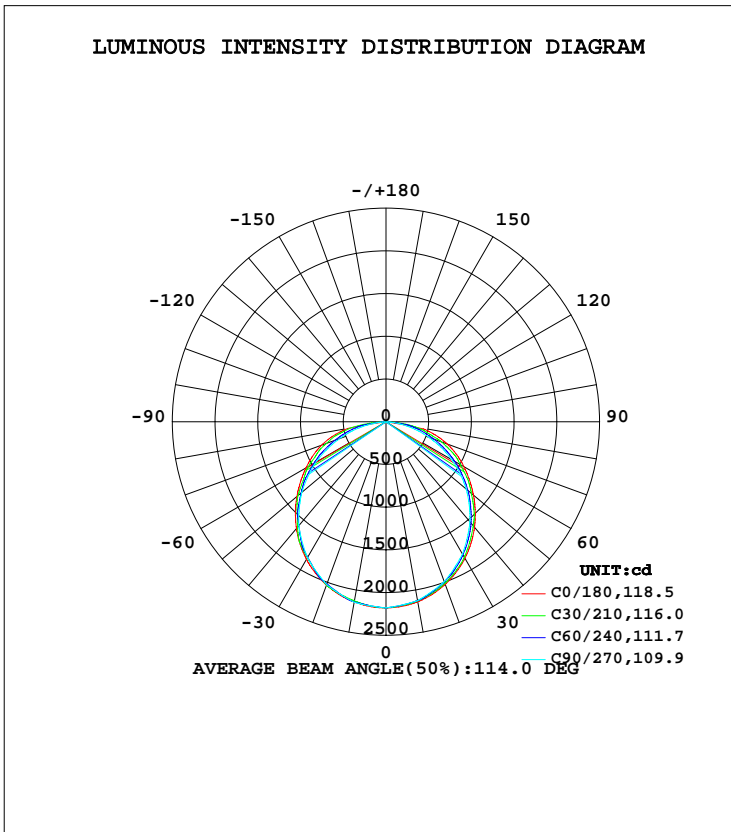


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.30 lm/W			
MODEL	TAA24-50W-3500K	Imax(cd)	2178	S/MH(C0/180)	1.27
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6333.9	η UP, DN(C0-180)	0.0,49.0
NOMINAL FLUX(lm)	6333.91	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,51.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35



H(β) Range:-80 - 80DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:DAMIN
 Test Date:08 August 2024

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

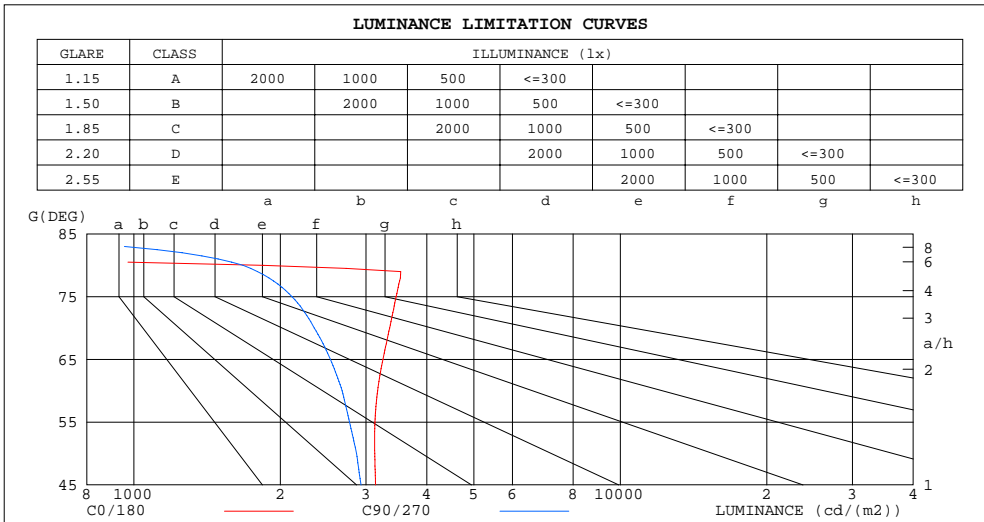
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2139	2125	2127	2120	2143	2133	2146	2138	0- 10	205.3	205.3	3.24,3.24
20	2025	2007	1993	1992	2035	2017	2029	2030	10- 20	587.4	792.8	12.5,12.5
30	1846	1813	1790	1808	1861	1844	1839	1847	20- 30	889.1	1682	26.6,26.6
40	1611	1566	1529	1567	1631	1611	1587	1607	30- 40	1072	2753	43.5,43.5
50	1337	1274	1227	1281	1361	1331	1286	1317	40- 50	1116	3869	61.1,61.1
60	1054	966.0	891.2	961.8	1082	1013	946.2	1007	50- 60	1024	4893	77.2,77.2
70	763.1	660.3	534.1	602.0	802.2	696.3	576.7	691.8	60- 70	813.0	5706	90.1,90.1
80	213.5	348.0	193.8	282.0	455.6	367.6	218.5	366.2	70- 80	512.0	6218	98.2,98.2
90	0	0	0	0	0	0	0	0	80- 90	116.0	6334	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

$H(\beta)$ Range:-80 - 80DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:DAMIN
 Test Date:08 August 2024

$V(B)$ Range:-80 - 80DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	1849	1678
75	3461	2114
70	3355	2348
65	3250	2535
60	3170	2680
55	3130	2776
50	3127	2870
45	3140	2930

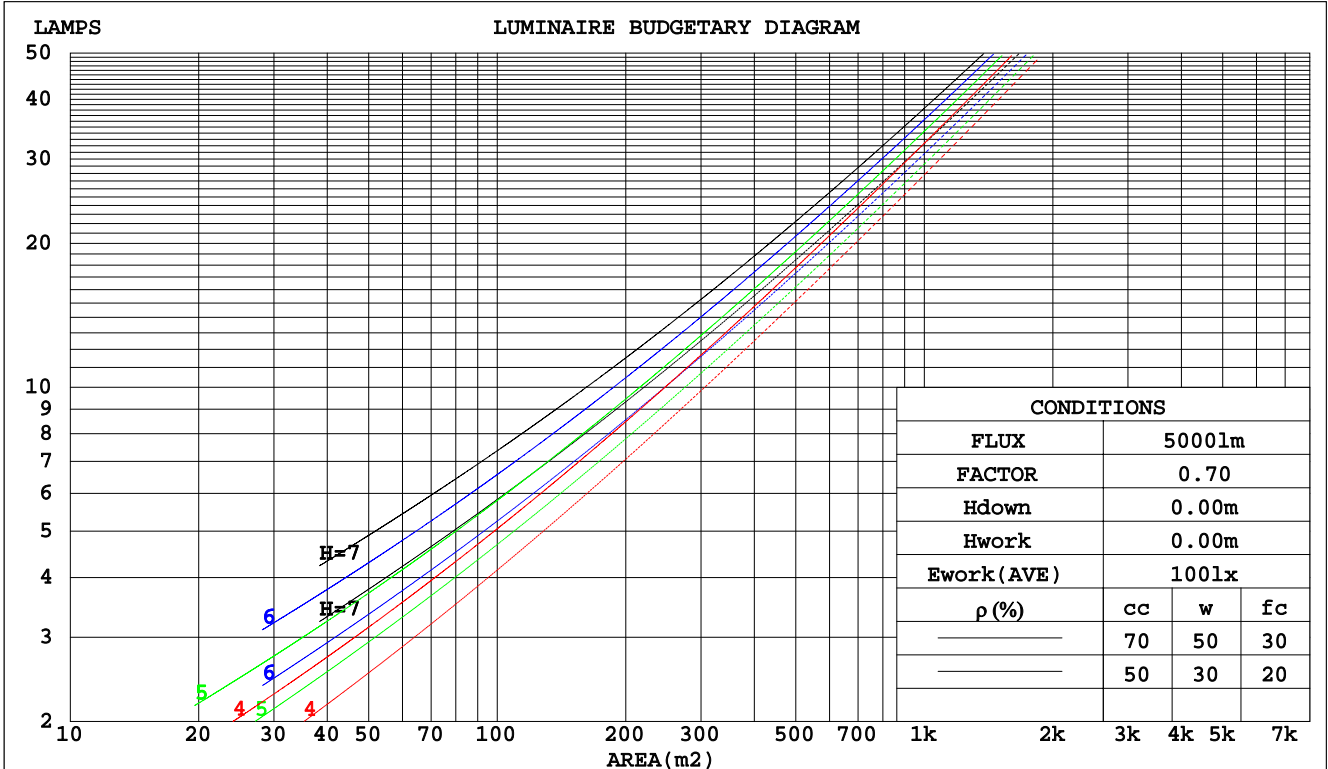
H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	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
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.37	.30	.25	.36	.30	.25	.24



H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.316	.180	.057	.309	.176	.056	.296	.170	.054	.283	.164	.052	.272	.158	.051	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.268	.151	.047	.258	.146	.046	
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.239	.126	.038	.230	.123	.037	.222	.121	.037	
5.0	.233	.119	.034	.229	.117	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.029	.112	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working 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	17.0	18.5	17.3	18.7	18.9	16.3	17.8	16.5	18.0	18.2
3H	18.9	20.3	19.2	20.6	20.8	17.7	19.1	18.0	19.3	19.6
4H	19.7	21.0	20.0	21.3	21.6	18.2	19.6	18.5	19.8	20.1
6H	20.3	21.6	20.7	21.9	22.2	18.6	19.8	18.9	20.1	20.4
8H	20.3	21.6	20.7	21.9	22.2	18.6	19.8	19.0	20.1	20.4
12H	20.3	21.5	20.6	21.8	22.1	18.6	19.8	18.9	20.1	20.4
4H 2H	17.6	18.9	17.9	19.2	19.4	17.0	18.4	17.3	18.6	18.9
3H	19.7	20.8	20.0	21.1	21.4	18.6	19.8	19.0	20.1	20.4
4H	20.6	21.7	21.0	22.0	22.3	19.3	20.4	19.7	20.7	21.1
6H	21.4	22.4	21.8	22.7	23.1	19.8	20.8	20.2	21.1	21.5
8H	21.6	22.5	22.0	22.8	23.2	19.9	20.8	20.3	21.2	21.5
12H	21.6	22.4	22.0	22.8	23.2	19.9	20.7	20.3	21.1	21.5
8H 4H	20.9	21.8	21.3	22.2	22.5	19.8	20.7	20.2	21.1	21.5
6H	21.9	22.6	22.3	23.1	23.5	20.5	21.2	20.9	21.7	22.1
8H	22.2	22.9	22.7	23.3	23.7	20.6	21.3	21.1	21.7	22.2
12H	22.4	22.9	22.8	23.4	23.9	20.6	21.2	21.1	21.7	22.1
12H 4H	20.9	21.7	21.3	22.1	22.5	19.9	20.7	20.3	21.1	21.5
6H	22.0	22.6	22.4	23.1	23.5	20.7	21.3	21.1	21.7	22.2
8H	22.3	22.9	22.8	23.4	23.8	20.9	21.4	21.3	21.9	22.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 6334 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.4)
Area: 0.665 m2

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

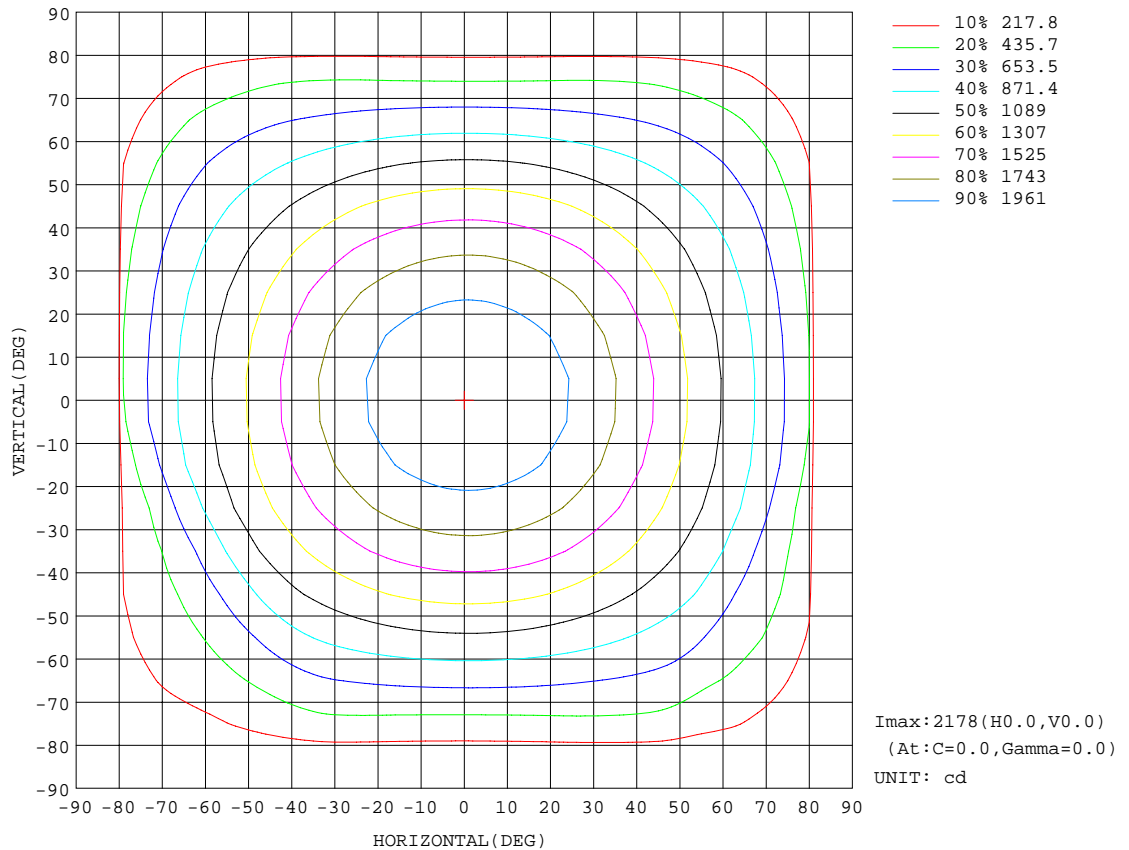
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-80 - 80DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:DAMIN
 Test Date:08 August 2024

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

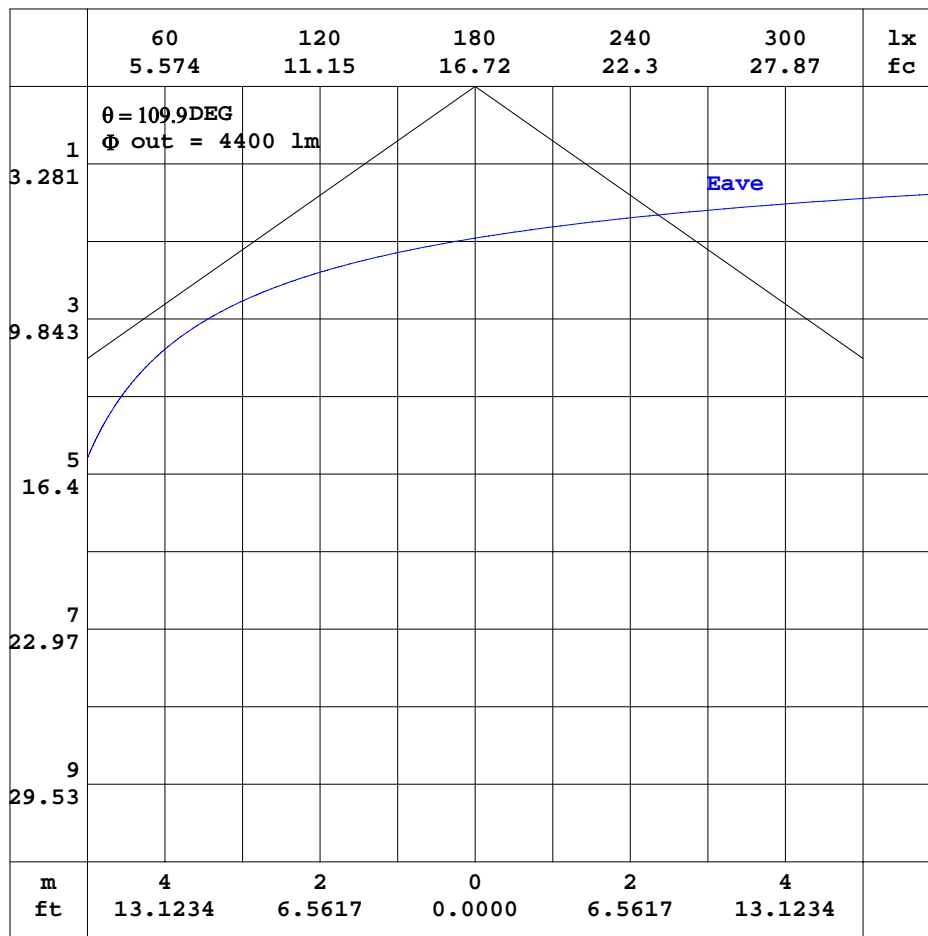


H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:



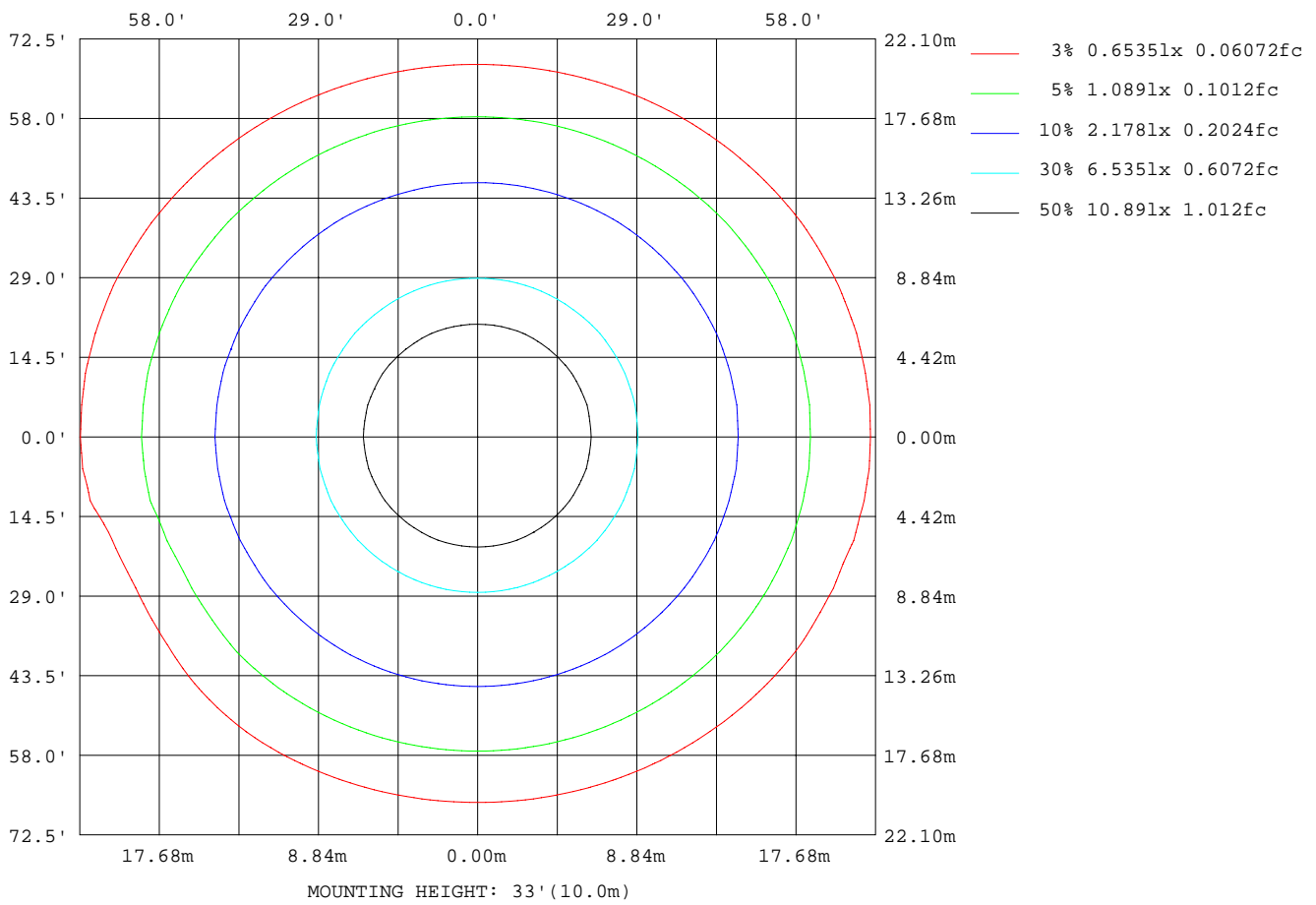
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:



H(β) Range: -80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.4DEG
Operators: DAMIN
Test Date: 08 August 2024

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.550m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

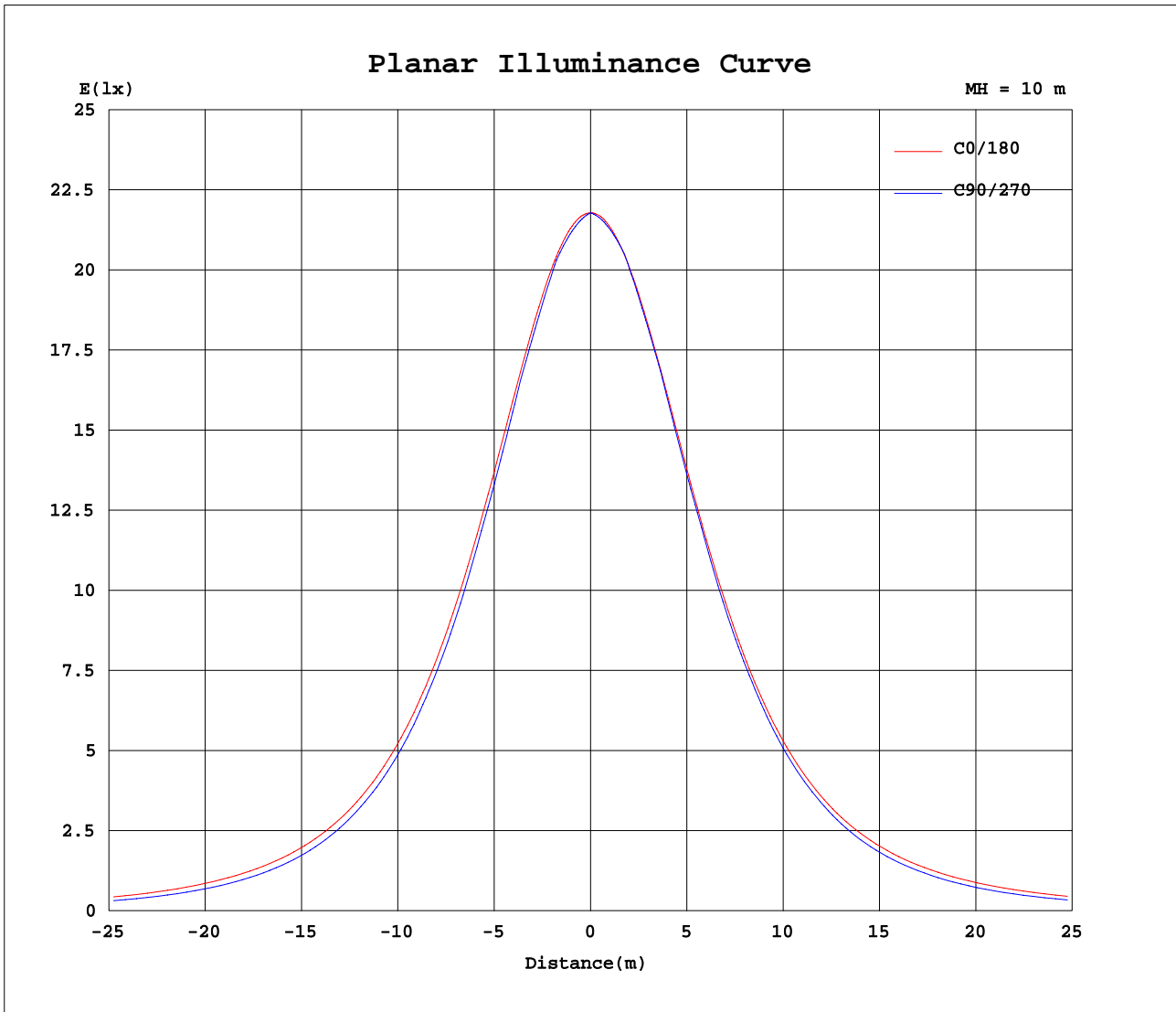
AvgL	cd/m2
L_0~180(65)av	3307
L_0~180(75)av	3588
L_0~180(85)av	0
L_90~270(65)av	2622
L_90~270(75)av	2212
L_90~270(85)av	0
L_45(65)av	2927
L_45(75)av	2947
L_45(85)av	1723

Standard: GB/T 29293-2012

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-80 - 80DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:DAMIN
 Test Date:08 August 2024

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.28V I:0.3962A P:47.515W PF:0.9971 Freq:59.98Hz Lamp Flux:6333.9lx1 lm		
NAME: TAA24-50W-3500K	TYPE:	WEIGHT:
SPEC.: 1212*603	DIM.:	SERIAL No.: 20240805001
MFR.:	SUR.: 1212*603	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178				
5	2162	2163	2163	2163	2163	2163	2163	2164	2164	2164	2164	2165	2166	2166	2167				
10	2144	2143	2142	2140	2139	2138	2138	2138	2138	2139	2138	2137	2137	2137	2138				
15	2089	2090	2090	2091	2092	2094	2096	2097	2095	2094	2094	2095	2093	2091	2091				
20	2026	2025	2025	2026	2027	2029	2030	2029	2030	2032	2031	2031	2033	2030	2027				
25	1937	1938	1940	1942	1943	1945	1945	1948	1953	1951	1950	1950	1952	1954	1947				
30	1837	1839	1840	1841	1846	1846	1847	1847	1850	1856	1858	1854	1854	1860	1854				
35	1718	1721	1723	1725	1728	1731	1737	1741	1738	1738	1746	1749	1743	1748	1747				
40	1587	1589	1592	1597	1603	1605	1607	1611	1620	1619	1615	1628	1623	1622	1629				
45	1443	1446	1449	1453	1457	1464	1475	1476	1476	1487	1487	1483	1499	1484	1501				
50	1289	1292	1297	1305	1311	1314	1317	1328	1340	1336	1348	1345	1350	1348	1358				
55	1125	1129	1136	1142	1149	1159	1173	1175	1178	1198	1193	1209	1196	1215	1211				
60	953	958	967	978	990	999	1007	1020	1038	1036	1056	1053	1070	1070	1064				
65	774	783	793	805	818	833	852	868	877	896	903	919	917	916	921				
70	592	604	618	636	655	675	692	708	728	746	753	768	782	788	785				
75	419	434	453	472	491	513	534	552	571	579	592	600	614	614	609				
80	249	271	295	316	334	351	366	377	386	400	410	415	428	436	434				
85	8.34	16.1	27.4	42.3	60.8	83.0	108	131	152	167	167	172	161	166	0.00				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:DAMIN
Test Date:08 August 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks: