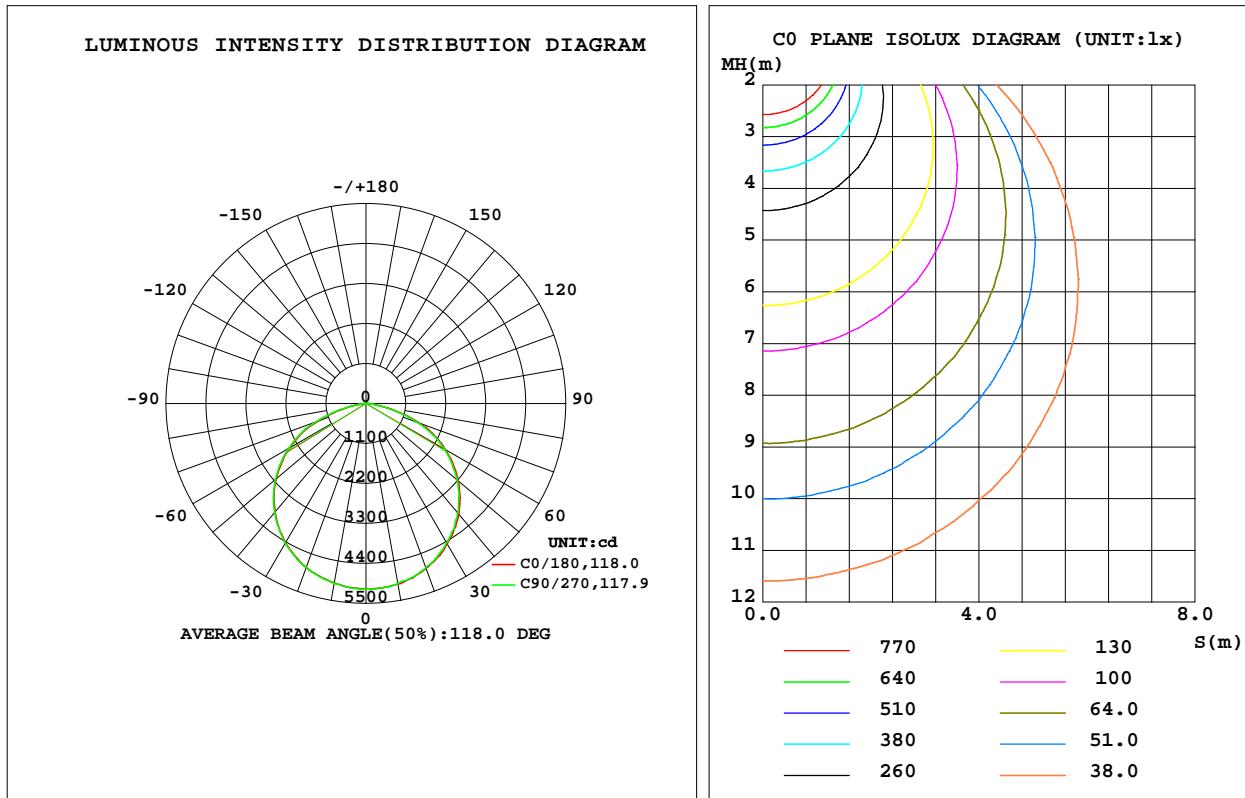


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE:/	WEIGHT:/
SPEC.: /	DIM.: /	SERIAL No.:N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle:/

DATA OF LAMP		PHOTOMETRIC DATA			Eff: 157.85 lm/W
MODEL 230V-100W 5000K-4000K	I _{max} (cd)	5110	S/MH(C0/180)	1.29	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	15048	h UP, DN(C0-180)	0.0, 50.3
NOMINAL FLUX(lm)	15047.8	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 49.7
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		h down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	5043	5029	5036	5018	5014	5011	5022	5022	0- 10	483.2	483.2	3.21,3.21
20	4831	4827	4812	4790	4808	4792	4799	4806	10- 20	1393	1876	12.5,12.5
30	4465	4469	4428	4424	4423	4416	4440	4455	20- 30	2140	4016	26.7,26.7
40	3973	3957	3918	3911	3899	3899	3909	3933	30- 40	2626	6642	44.1,44.1
50	3307	3308	3278	3235	3226	3231	3251	3297	40- 50	2785	9427	62.6,62.6
60	2519	2513	2480	2441	2407	2418	2451	2488	50- 60	2572	11999	79.7,79.7
70	1529	1515	1472	1425	1395	1397	1446	1493	60- 70	1978	13977	92.9,92.9
80	422.5	410.8	387.7	352.2	334.7	332.8	364.1	401.7	70- 80	946.4	14923	99.2,99.2
90	2.169	2.416	2.287	2.121	1.666	1.500	1.663	1.663	80- 90	124.7	15048	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	

Conical surface Flux(90deg): 8037.1 lm

%lum = 53.4%

%lamp = 53.4%

Conical surface Flux(120deg): 11999 lm

%lum = 79.7%

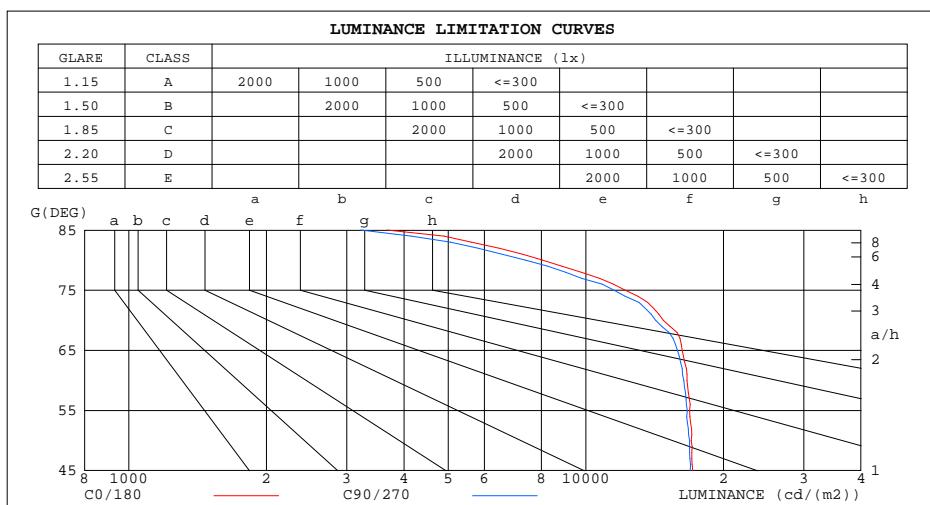
%lamp = 79.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.5DEG
 Operators:DJQ
 Test Date:2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity:46%
 Test Distance:26.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle: /



LUMINANCE cd/(m ²)		
G(DEG)	C0/180	C90/270
85	3677	3217
80	8044	7380
75	12199	11521
70	14781	14227
65	16247	15862
60	16658	16397
55	16867	16676
50	17009	16858
45	17152	16926

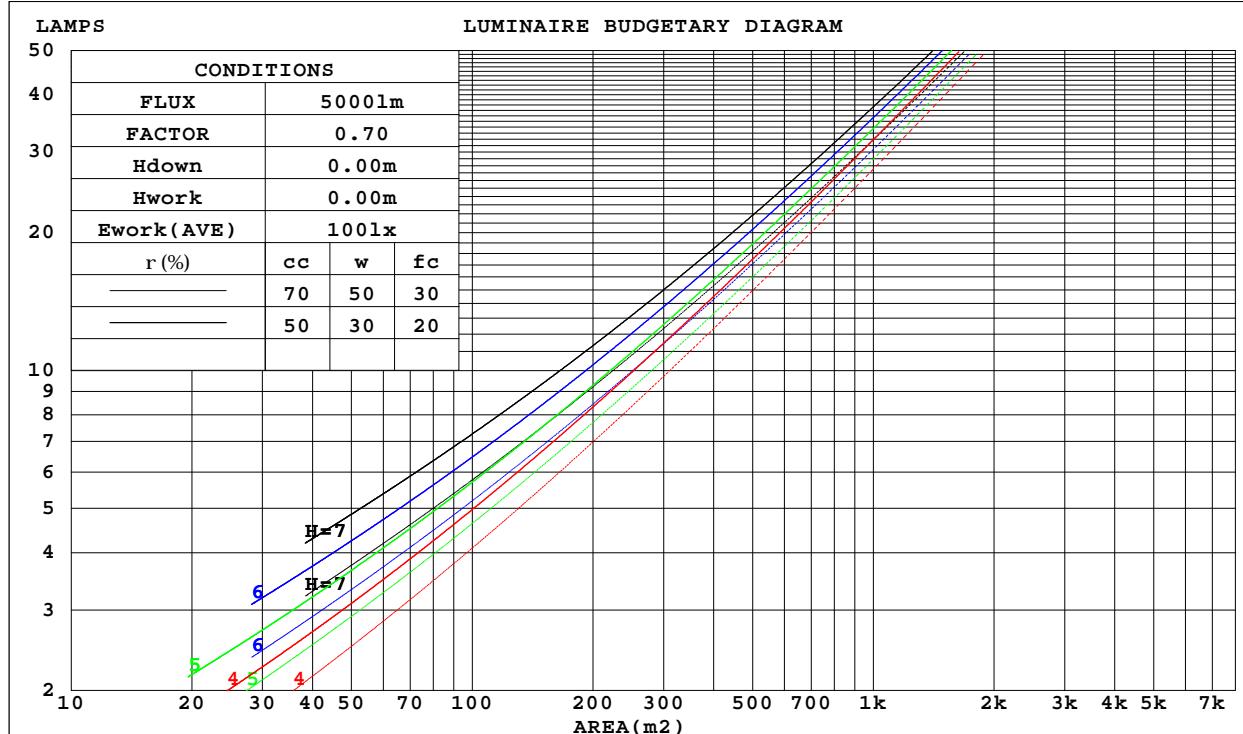
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.5DEG
Operators: DJQ
Test Date: 2025-04-23

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm													
NAME: Highbay							TYPE:/			WEIGHT:/			
SPEC.: /							DIM.: /			SERIAL No.:N25LEDGW18601-01			
MFR.: /							SUR.: /			Shielding Angle:/			

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.55	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.5DEG
Operators: DJQ
Test Date: 2025-04-23

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm													
NAME: Highbay							TYPE:/			WEIGHT:/			
SPEC.: /							DIM.: /			SERIAL No.:N25LEDGW18601-01			
MFR.: /							SUR.: /			Shielding Angle:/			

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	Wall Exitance Coeffcients(WEC)					
0.0						
1.0	.299 .170 .054	.292 .166 .053	.278 .160 .051	.266 .154 .049	.255 .148 .048	
2.0	.287 .157 .048	.281 .155 .048	.269 .150 .046	.258 .145 .045	.248 .140 .044	
3.0	.268 .142 .043	.262 .140 .042	.252 .136 .041	.242 .133 .041	.233 .129 .040	
4.0	.248 .129 .038	.243 .127 .038	.234 .124 .037	.226 .121 .037	.218 .118 .036	
5.0	.230 .117 .034	.226 .116 .034	.218 .113 .033	.210 .111 .033	.203 .108 .033	
6.0	.214 .107 .031	.210 .106 .031	.203 .104 .030	.196 .102 .030	.190 .100 .030	
7.0	.199 .098 .028	.196 .098 .028	.189 .096 .028	.183 .094 .027	.177 .092 .027	
8.0	.186 .091 .026	.183 .090 .025	.177 .089 .025	.172 .087 .025	.167 .086 .025	
9.0	.174 .084 .024	.172 .084 .023	.167 .082 .023	.162 .081 .023	.157 .080 .023	
10.0	.164 .079 .022	.162 .078 .022	.157 .077 .022	.152 .076 .022	.148 .075 .021	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.180 .156 .135	.154 .134 .116	.105 .092 .080	.060 .053 .047	.019 .017 .015	
2.0	.172 .132 .099	.147 .114 .085	.101 .079 .059	.058 .046 .035	.019 .015 .011	
3.0	.164 .114 .075	.141 .099 .065	.097 .068 .045	.056 .040 .027	.018 .013 .009	
4.0	.157 .101 .058	.134 .087 .051	.092 .061 .036	.053 .036 .021	.017 .012 .007	
5.0	.149 .091 .047	.128 .078 .041	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.142 .082 .039	.122 .071 .034	.084 .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	.129 .070 .029	.111 .060 .025	.077 .042 .018	.045 .025 .011	.014 .008 .003	
9.0	.123 .065 .025	.106 .056 .022	.073 .039 .016	.043 .023 .009	.014 .008 .003	
10.0	.117 .060 .022	.101 .052 .020	.070 .037 .014	.041 .022 .008	.013 .007 .003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm														
NAME: Highbay					TYPE:/		WEIGHT:/							
SPEC.: /					DIM.: /		SERIAL No.:N25LEDGW18601-01							
MFR.: /					SUR.: /		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 23.0 24.5 23.2 24.7 24.9 22.9 24.4 23.2 24.6 24.8														
3H 24.5 25.9 24.8 26.1 26.4 24.4 25.8 24.7 26.0 26.3														
4H 25.0 26.3 25.3 26.6 26.9 24.9 26.2 25.2 26.4 26.7														
6H 25.2 26.5 25.5 26.7 27.0 25.0 26.3 25.4 26.6 26.8														
8H 25.2 26.4 25.6 26.7 27.0 25.0 26.2 25.4 26.5 26.8														
12H 25.2 26.4 25.5 26.7 27.0 25.0 26.2 25.4 26.5 26.8														
4H 2H 23.6 24.9 23.9 25.2 25.4 23.5 24.9 23.9 25.1 25.4														
3H 25.3 26.5 25.7 26.8 27.1 25.2 26.4 25.5 26.7 27.0														
4H 25.9 27.0 26.3 27.3 27.6 25.7 26.8 26.1 27.1 27.5														
6H 26.2 27.1 26.6 27.5 27.8 26.0 26.9 26.4 27.3 27.7														
8H 26.2 27.1 26.6 27.4 27.8 26.0 26.9 26.4 27.3 27.6														
12H 26.2 27.0 26.6 27.4 27.8 26.0 26.8 26.4 27.2 27.6														
8H 4H 26.1 26.9 26.5 27.3 27.7 25.9 26.8 26.3 27.2 27.6														
6H 26.4 27.1 26.9 27.5 28.0 26.3 27.0 26.7 27.4 27.8														
8H 26.5 27.1 26.9 27.6 28.0 26.3 27.0 26.8 27.4 27.8														
12H 26.5 27.1 27.0 27.5 28.0 26.3 26.9 26.8 27.3 27.8														
12H 4H 26.0 26.8 26.5 27.2 27.6 25.9 26.7 26.3 27.1 27.5														
6H 26.4 27.1 26.9 27.5 27.9 26.3 26.9 26.7 27.3 27.8														
8H 26.5 27.1 27.0 27.5 28.0 26.3 26.9 26.8 27.3 27.8														
Variations with the observer position at spacings:														
S = 1.0H + 0.2 / - 0.2 + 0.2 / - 0.2														
1.5H + 0.2 / - 0.4 + 0.2 / - 0.4														
2.0H + 0.2 / - 0.4 + 0.2 / - 0.4														

CIE Pub.117, 15048 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.4)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE:/	WEIGHT:/
SPEC.: /	DIM.: /	SERIAL No.:N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle:/

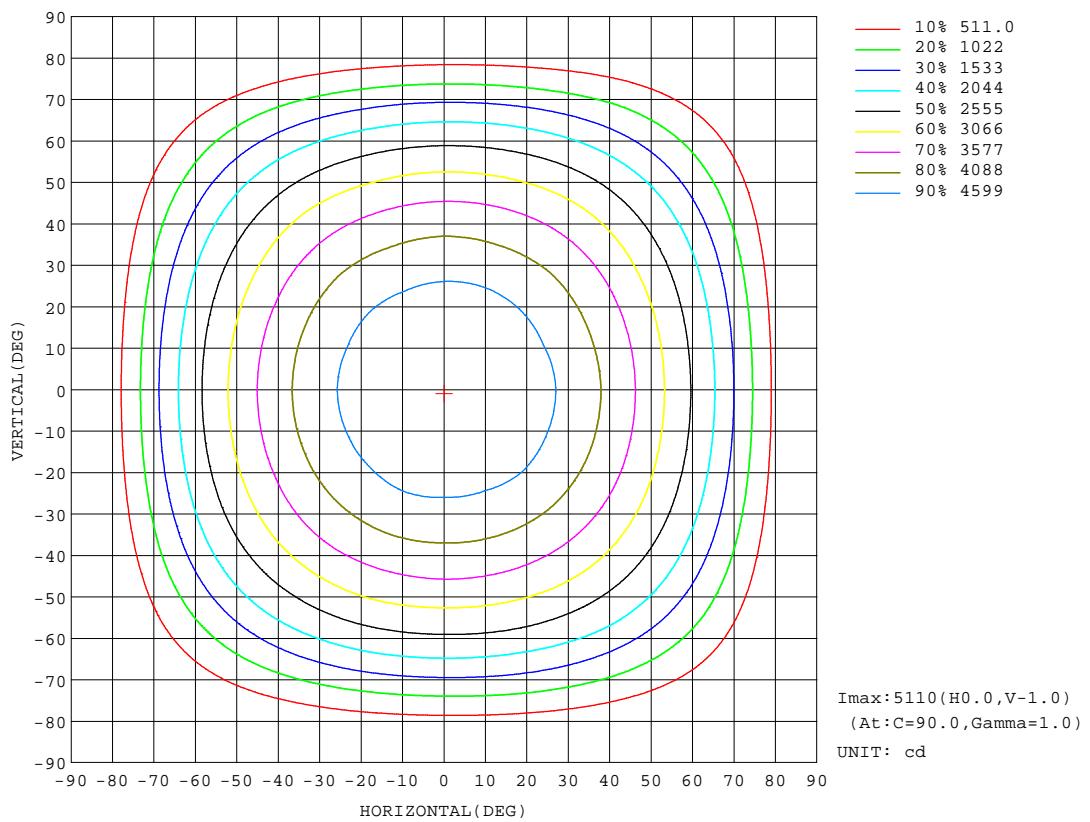
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX										
UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5										
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	78	71	84	76	70	62
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	101	94	89	96	91	87	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	101	107	102	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended									SHRNOM = 1.25

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle: /

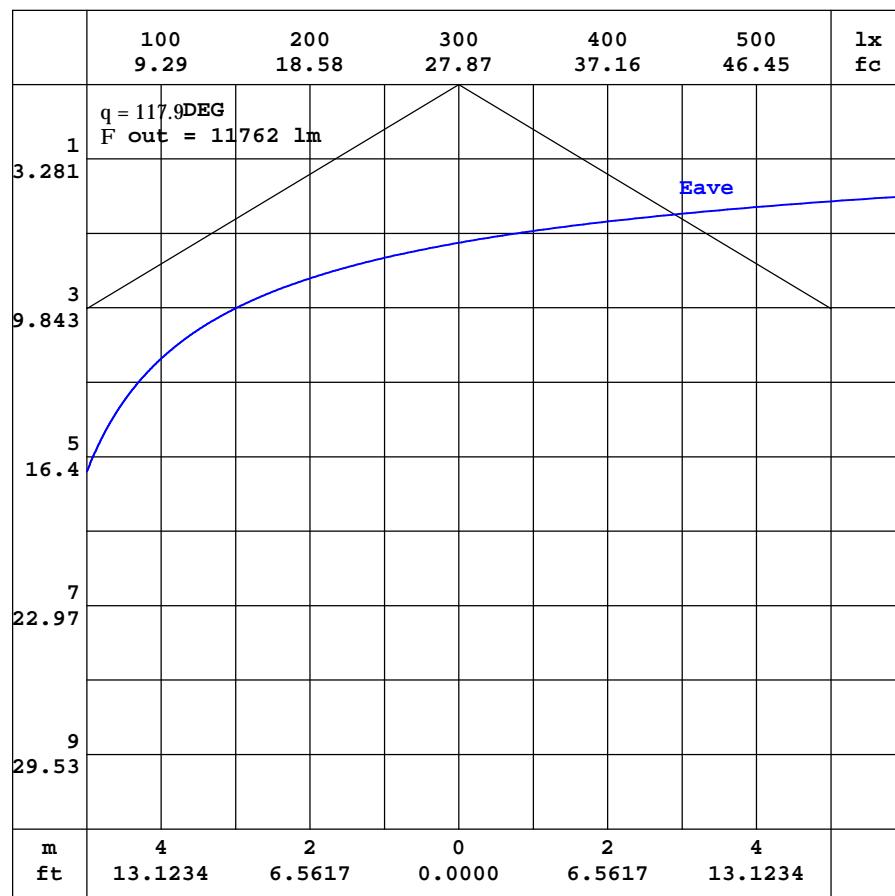


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE:/	WEIGHT:/
SPEC.: /	DIM.: /	SERIAL No.:N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle:/



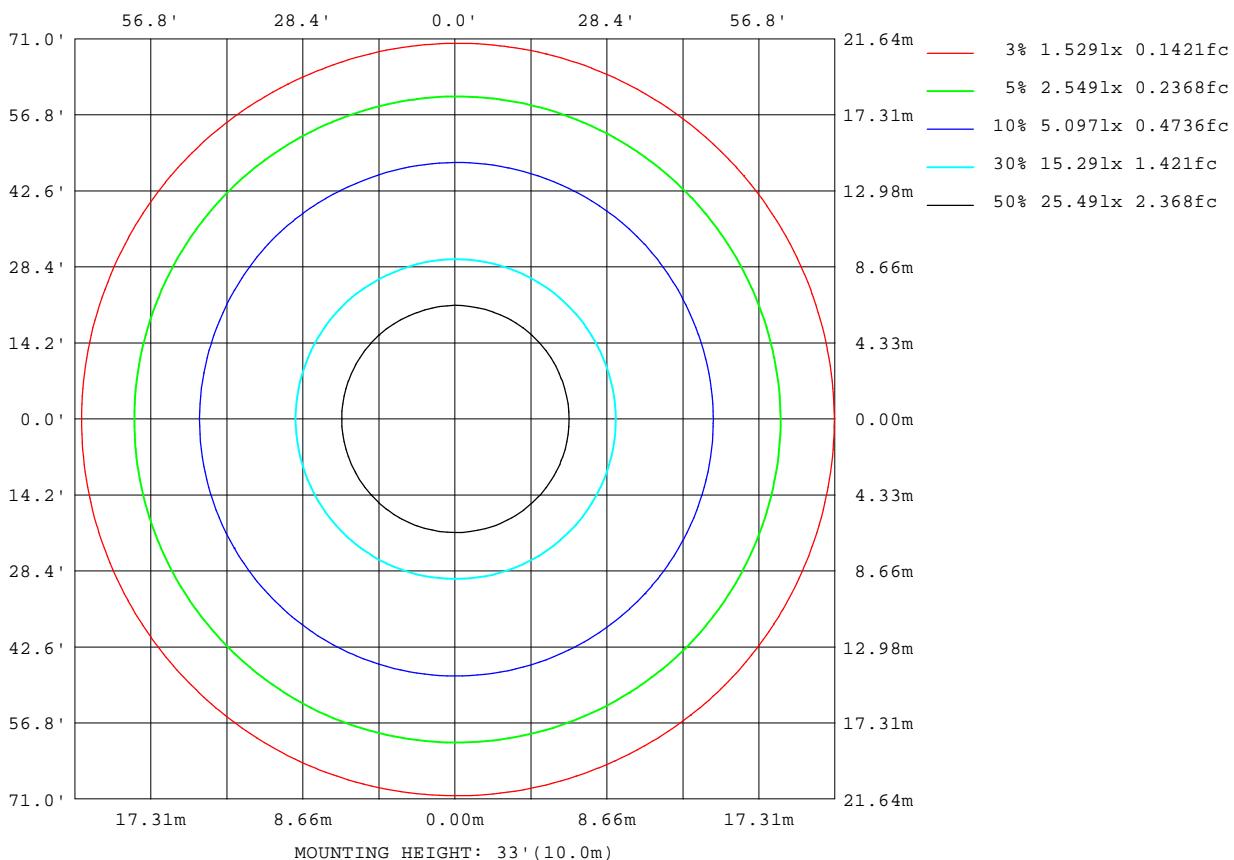
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.5DEG
Operators: DJQ
Test Date: 2025-04-23

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle: /



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE:/	WEIGHT:/
SPEC.: /	DIM.: /	SERIAL No.:N25LEDGW18601-01
MFR.: /	SUR.: /	Shielding Angle:/

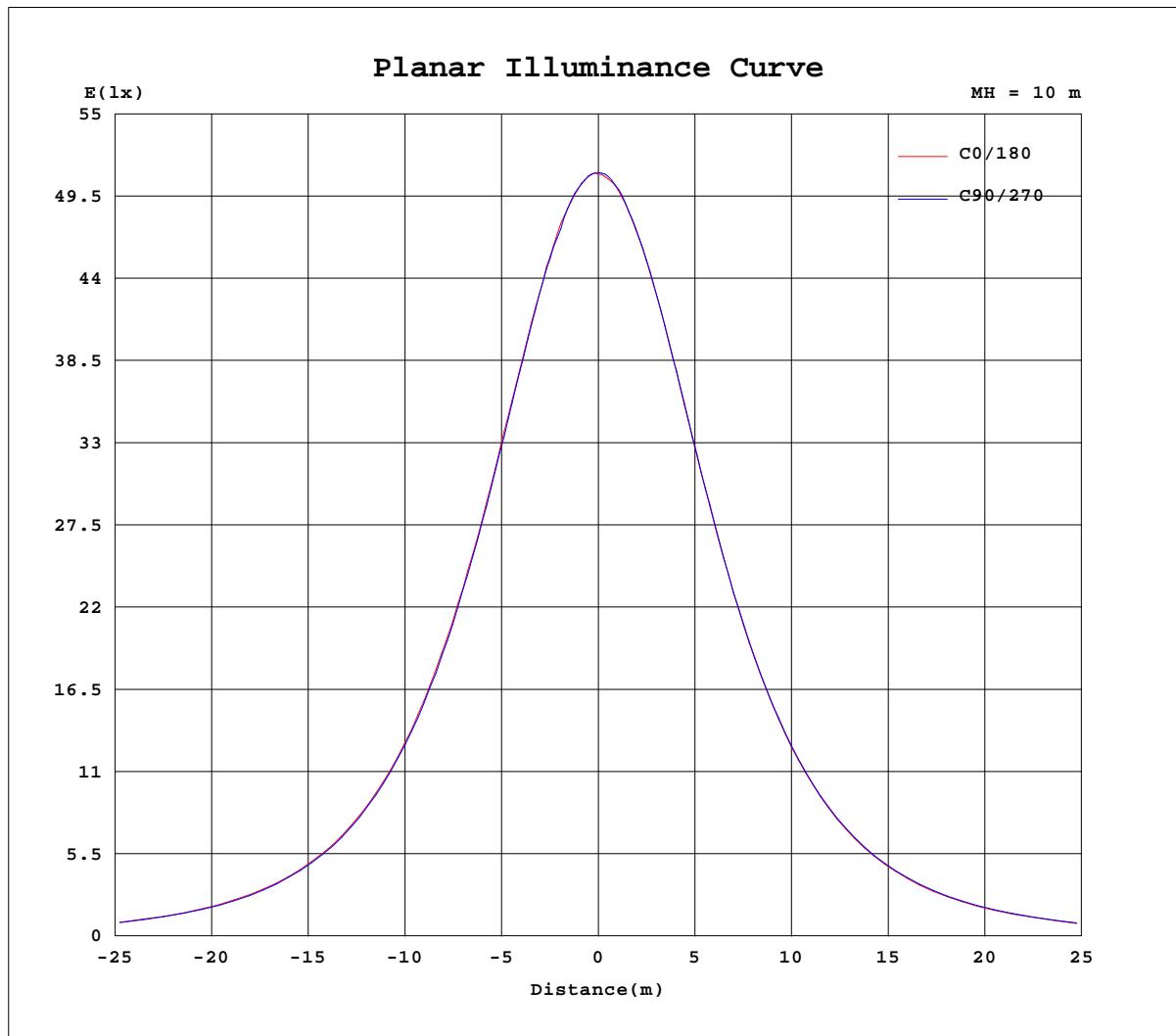
AvgL	cd/m2
L_0~180(65)av	15804
L_0~180(75)av	11309
L_0~180(85)av	2919
L_90~270(65)av	15776
L_90~270(75)av	11307
L_90~270(85)av	2974
L_45(65)av	15795
L_45(75)av	11372
L_45(85)av	2996

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.5DEG
 Operators: DJQ
 Test Date: 2025-04-23

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.5DEG
Operators: DJQ
Test Date: 2025-04-23

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.9V I:0.4217A P:95.33W PF:0.9832 Freq:50.00Hz Lamp Flux:15047.8x1 lm		
NAME: Highbay	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:N25LEDGW18601-01
MFR.: /	SUR.:/	Shielding Angle:/

Table-1

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.5DEG
Operators: DJQ
Test Date: 2025-04-23

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks: