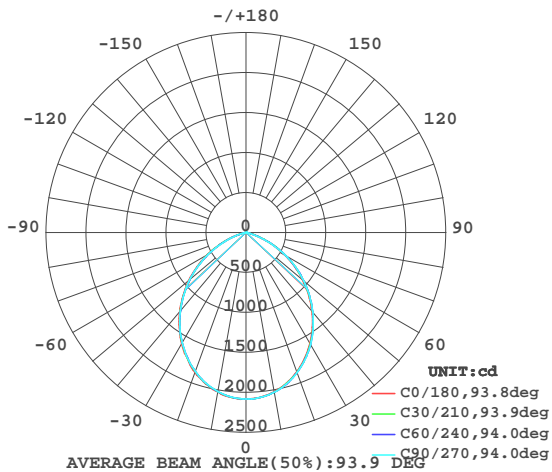


## LUMINAIRE PHOTOMETRIC TEST REPORT

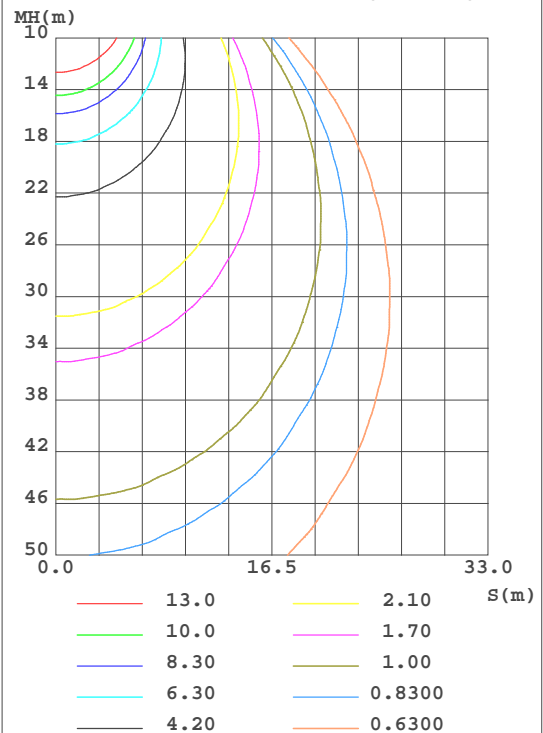
Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.73 lm/W			
MODEL		I <sub>max</sub> (cd)	2086	S/MH(C0/180)	1.15
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4441.6	h UP,DN(C0-180)	0.1,49.6
NOMINAL FLUX(lm)	4441.6	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,50.2
LAMPS INSIDE	1	h up(%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.8	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

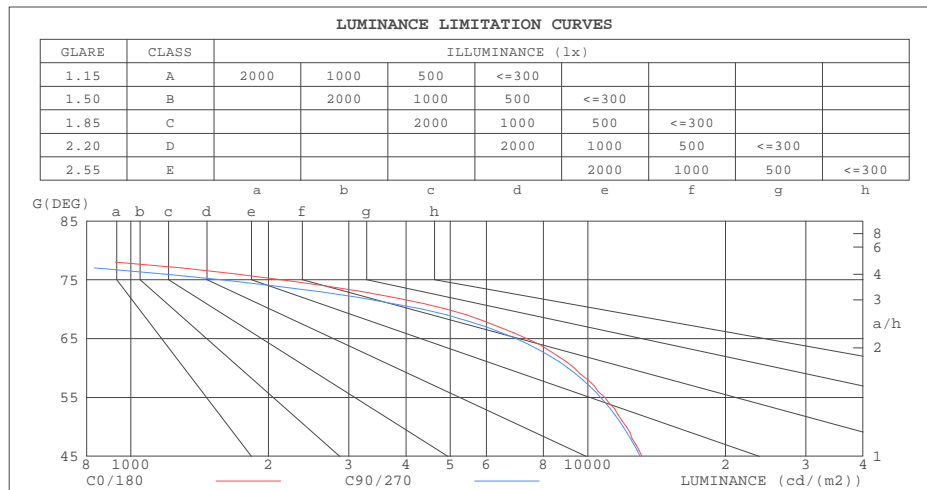
g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

## ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum
10	2023	2024	2021	2024	2023	2028	2031	2029	0- 10	196.1	196.1	4.42
20	1864	1855	1851	1857	1856	1863	1867	1864	10- 20	550.5	746.6	16.8
30	1610	1599	1595	1603	1602	1610	1617	1613	20- 30	801.2	1548	34.8
40	1291	1280	1277	1287	1284	1295	1302	1294	30- 40	908.1	2456	55.3
50	935.8	923.1	919.9	932.2	928.1	940.8	946.0	935.3	40- 50	857.6	3314	74.6
60	559.5	551.8	541.9	560.5	555.3	569.7	566.7	561.9	50- 60	666.1	3980	89.6
70	201.2	194.2	178.1	201.0	194.4	209.5	194.3	205.7	60- 70	368.7	4348	97.9
80	8.497	7.413	5.424	9.342	7.551	9.360	6.055	8.675	70- 80	81.77	4430	99.7
90	0.0004	0	0	0	0	0	0	0	80- 90	2.347	4432	99.8
100	0	0	0	0	0	0	0	0	90-100	0.0000	4432	99.8
110	0.1405	0.2034	0.1531	0.1862	0.2832	0.1776	0.2655	0.2103	100-110	0.0376	4432	99.8
120	0.8858	0.9546	1.015	0.9354	1.066	0.9773	1.145	1.014	110-120	0.5638	4433	99.8
130	1.803	1.865	1.973	1.843	1.971	1.907	2.074	1.930	120-130	1.285	4434	99.8
140	2.701	2.757	2.866	2.735	2.845	2.806	2.947	2.813	130-140	1.815	4436	99.9
150	3.489	3.540	3.530	3.526	3.588	3.582	3.599	3.568	140-150	1.990	4438	99.9
160	4.104	4.136	4.157	4.126	4.185	4.178	4.208	4.174	150-160	1.783	4440	100
170	4.523	4.561	4.607	4.565	4.598	4.597	4.626	4.589	160-170	1.238	4441	100
180	4.715	4.739	4.755	4.732	4.715	4.739	4.755	4.725	170-180	0.4450	4442	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Aaron  
Test Date: 2023-12-05

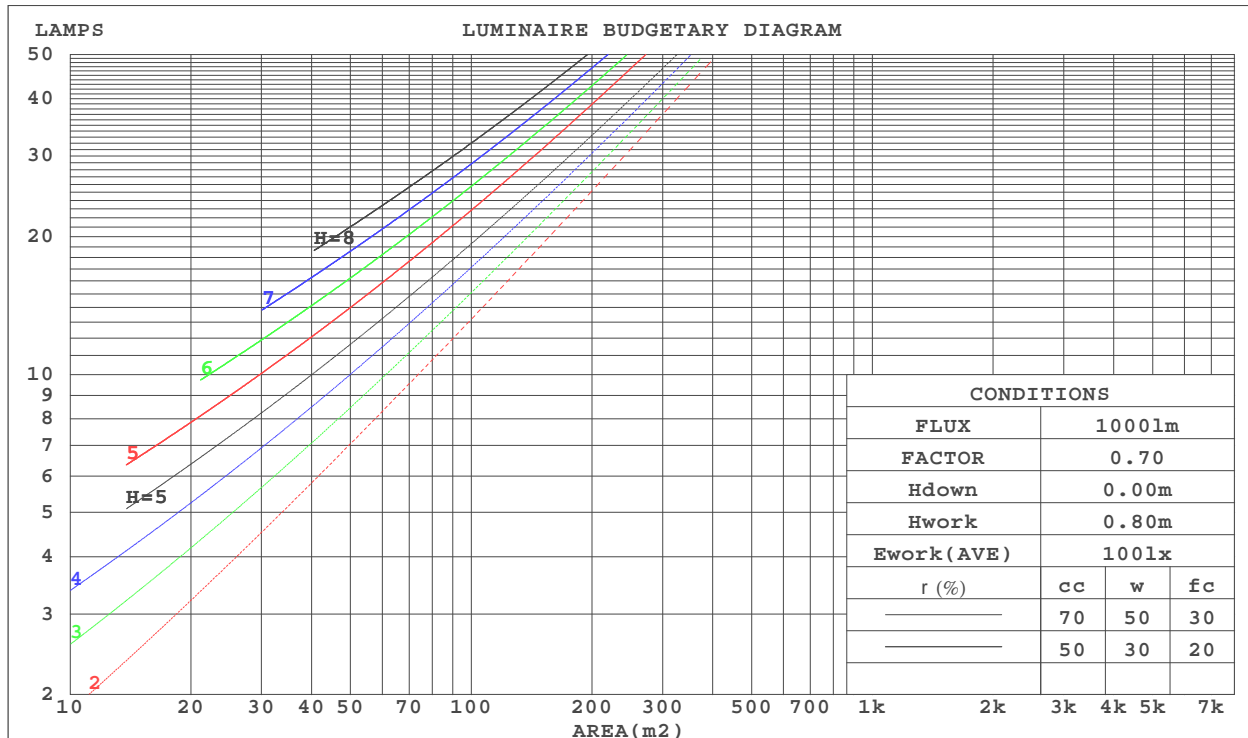
g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDC\NYXNC8RDM9CCT5SDUALDIMWDC 40W 3500K Diffuser Clear trim H.GOS

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	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	1.07	1.03	1.00	1.05	1.02	.99	1.00	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.89	.85	.93	.88	.84	.90	.85	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.60	.54	.68	.60	.54	.65	.59	.54	.64	.58	.53	.62	.57	.52	.51
6.0	.62	.54	.48	.61	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.54	.48	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.35	.31	.30



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155

T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

## WEC AND CCEC

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.250	.142	.045	.243	.139	.044	.230	.132	.042	.218	.126	.040	.207	.120	.039	
2.0	.246	.135	.041	.239	.132	.041	.228	.127	.039	.218	.122	.038	.208	.118	.037	
3.0	.234	.125	.037	.229	.122	.037	.219	.118	.036	.209	.115	.035	.201	.111	.034	
4.0	.221	.115	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.191	.104	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.195	.098	.028	.191	.097	.028	.184	.094	.027	.178	.092	.027	.172	.090	.027	
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.173	.084	.024	.170	.084	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023	
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021	
10.0	.154	.074	.021	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020	

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.178	.158	.141	.152	.136	.121	.104	.093	.084	.060	.054	.049	.019	.017	.016	
2.0	.168	.134	.105	.144	.115	.091	.098	.080	.063	.057	.046	.037	.018	.015	.012	
3.0	.159	.116	.081	.136	.100	.070	.094	.069	.049	.054	.040	.029	.017	.013	.010	
4.0	.151	.102	.064	.130	.088	.056	.089	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.144	.091	.052	.124	.079	.045	.085	.055	.032	.049	.032	.019	.016	.011	.006	
6.0	.138	.083	.043	.118	.072	.038	.082	.050	.027	.047	.030	.016	.015	.010	.005	
7.0	.131	.076	.037	.113	.066	.032	.078	.046	.023	.045	.027	.014	.015	.009	.004	
8.0	.125	.070	.032	.108	.061	.028	.075	.043	.020	.043	.025	.012	.014	.008	.004	
9.0	.120	.065	.028	.103	.056	.025	.071	.040	.017	.042	.023	.010	.013	.008	.003	
10.0	.114	.061	.025	.099	.053	.022	.068	.037	.016	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

## UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm											
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC						TYPE:LED			WEIGHT:		
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC						DIM.:			SERIAL No.:01		
MFR.: GREEN CREATIVE						SUR.:			PROTECTION 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	20.8	22.2	21.1	22.4	22.6	20.7	22.1	21.0	22.3	22.5	
	3H	21.4	22.6	21.7	22.8	23.1	21.2	22.4	21.5	22.7	22.9
	4H	21.4	22.5	21.7	22.8	23.0	21.1	22.3	21.4	22.6	22.8
	6H	21.3	22.4	21.6	22.6	22.9	21.0	22.2	21.4	22.4	22.7
	8H	21.2	22.3	21.6	22.6	22.9	21.0	22.1	21.3	22.3	22.6
	12H	21.2	22.2	21.5	22.5	22.8	20.9	22.0	21.3	22.3	22.6
4H	2H	21.1	22.3	21.4	22.6	22.8	21.0	22.2	21.3	22.5	22.7
	3H	21.7	22.8	22.1	23.0	23.3	21.6	22.6	21.9	22.9	23.2
	4H	21.7	22.7	22.1	23.0	23.3	21.5	22.5	21.9	22.8	23.1
	6H	21.7	22.5	22.1	22.8	23.2	21.4	22.3	21.8	22.6	23.0
	8H	21.6	22.4	22.0	22.7	23.1	21.4	22.2	21.8	22.5	22.9
	12H	21.6	22.3	22.0	22.6	23.1	21.4	22.0	21.8	22.4	22.8
8H	4H	21.7	22.4	22.1	22.8	23.2	21.5	22.2	21.9	22.6	23.0
	6H	21.6	22.2	22.0	22.6	23.0	21.4	22.0	21.8	22.4	22.8
	8H	21.6	22.1	22.0	22.5	23.0	21.3	21.9	21.8	22.3	22.8
	12H	21.5	22.0	22.0	22.4	22.9	21.3	21.8	21.8	22.2	22.7
12H	4H	21.6	22.3	22.0	22.7	23.1	21.4	22.1	21.8	22.5	22.9
	6H	21.6	22.1	22.0	22.5	23.0	21.3	21.9	21.8	22.3	22.8
	8H	21.5	22.0	22.0	22.4	22.9	21.3	21.8	21.8	22.2	22.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.7					
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5					
2.0H	+ 0.9 / - 1.1					+ 0.9 / - 1.1					

CIE Pub.117 Corrected 4442 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.2)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION 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) $k(RI) \times RCR = 5$									
k = 0.60	63	53	46	63	52	46	61	52	46	40
0.80	74	63	57	73	63	57	71	62	56	50
1.00	82	72	66	81	72	66	79	73	65	59
1.25	89	80	74	88	79	74	85	78	73	66
1.50	94	85	79	92	84	79	89	83	78	71
2.00	100	93	87	98	91	87	95	89	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

## ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2900.5 lm

%lum = 65.3%

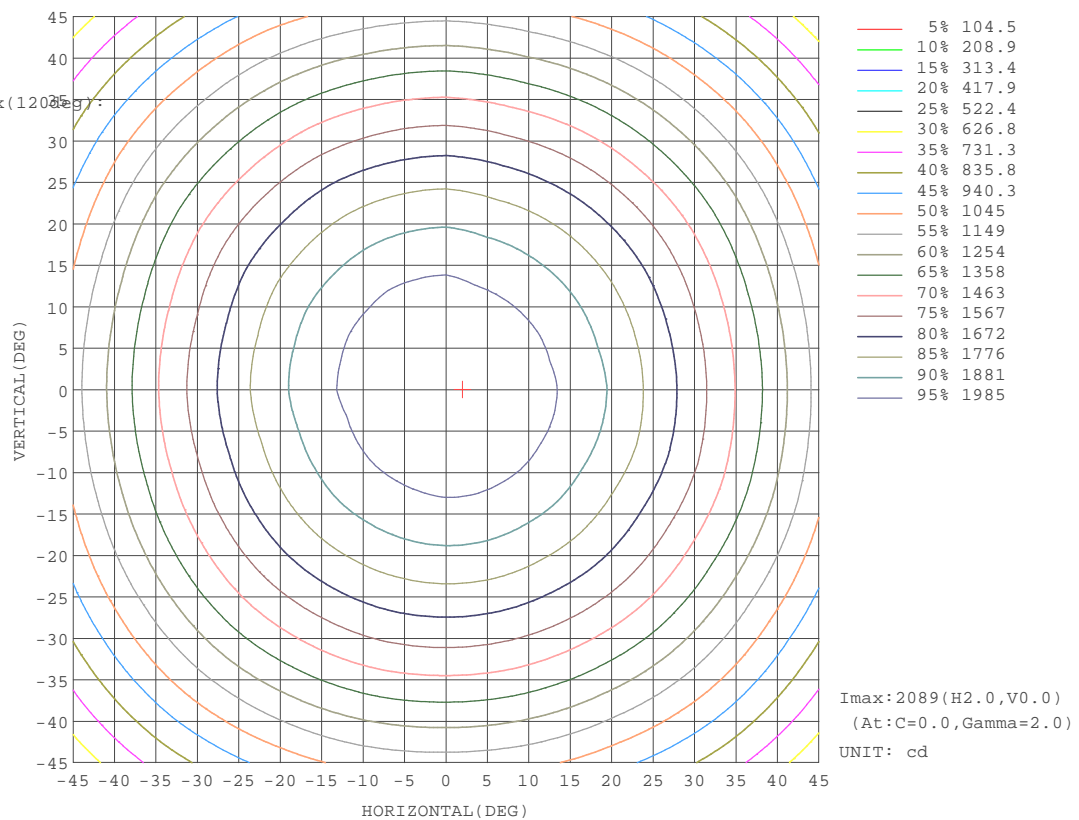
%lamp = 65.3%

Conical surface Flux(120deg):

3979.6 lm

%lum = 89.6%

%lamp = 89.6%



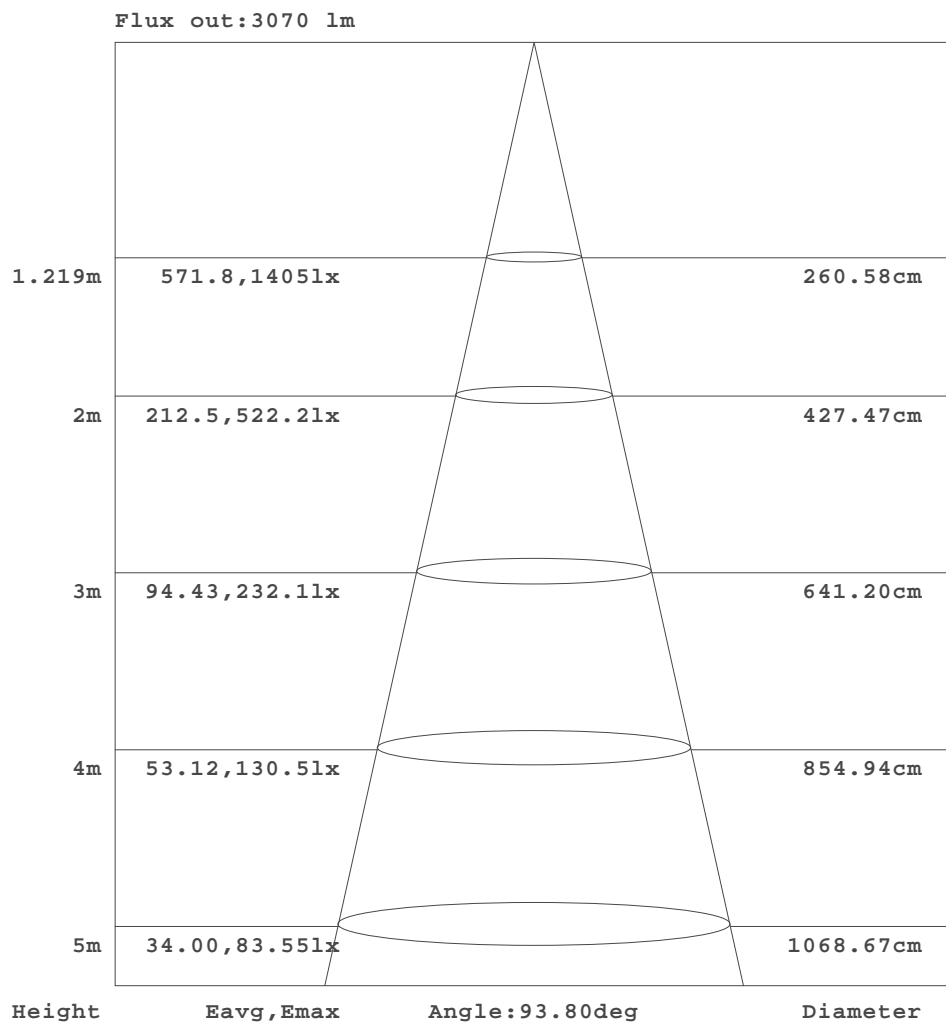
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

### AAI Figure

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION 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: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Aaron  
Test Date: 2023-12-05

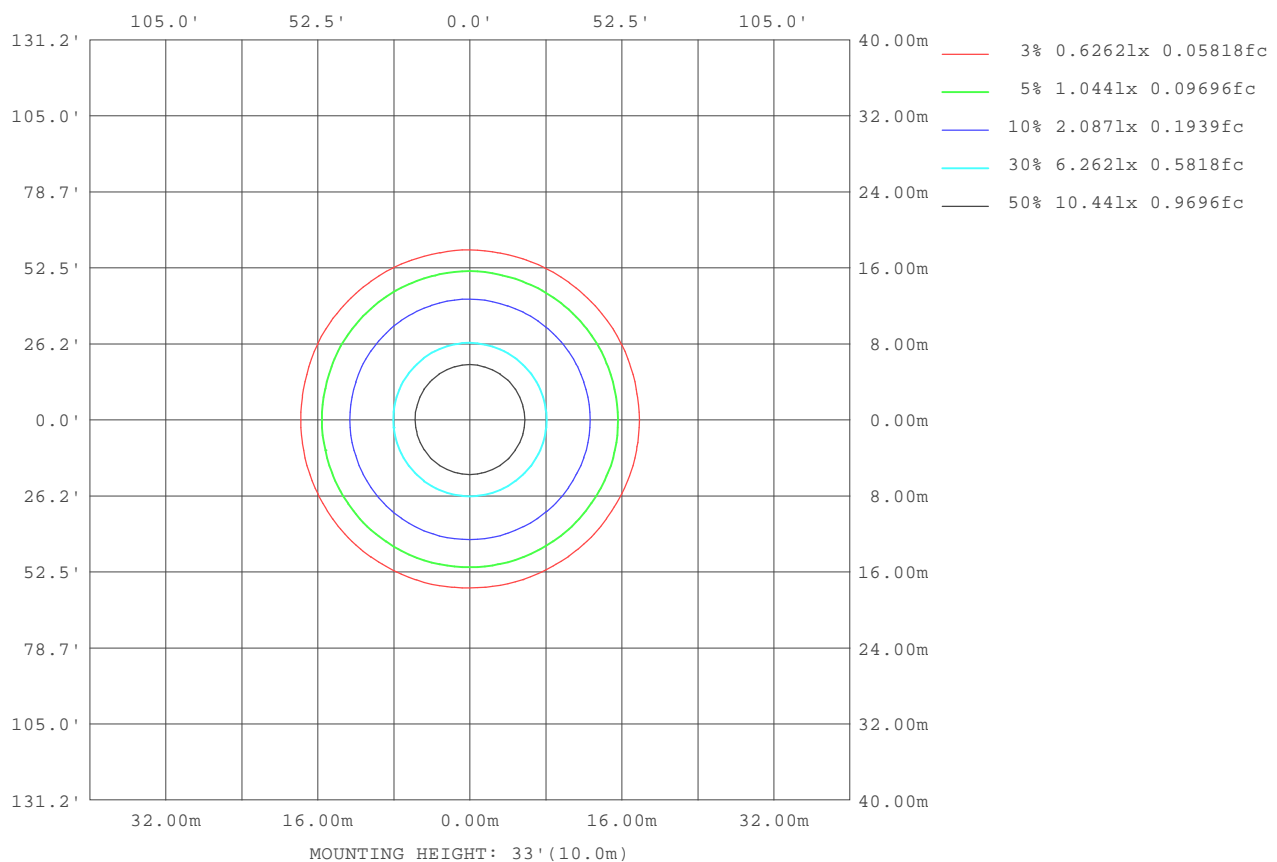
g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS



# ISOLUX DIAGRAM

Test:U:120.0V I:0.3228A P:37.41W PF:0.9856 Lamp Flux:4441.6x1 lm		
NAME: NYXNC8RDM9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDM9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

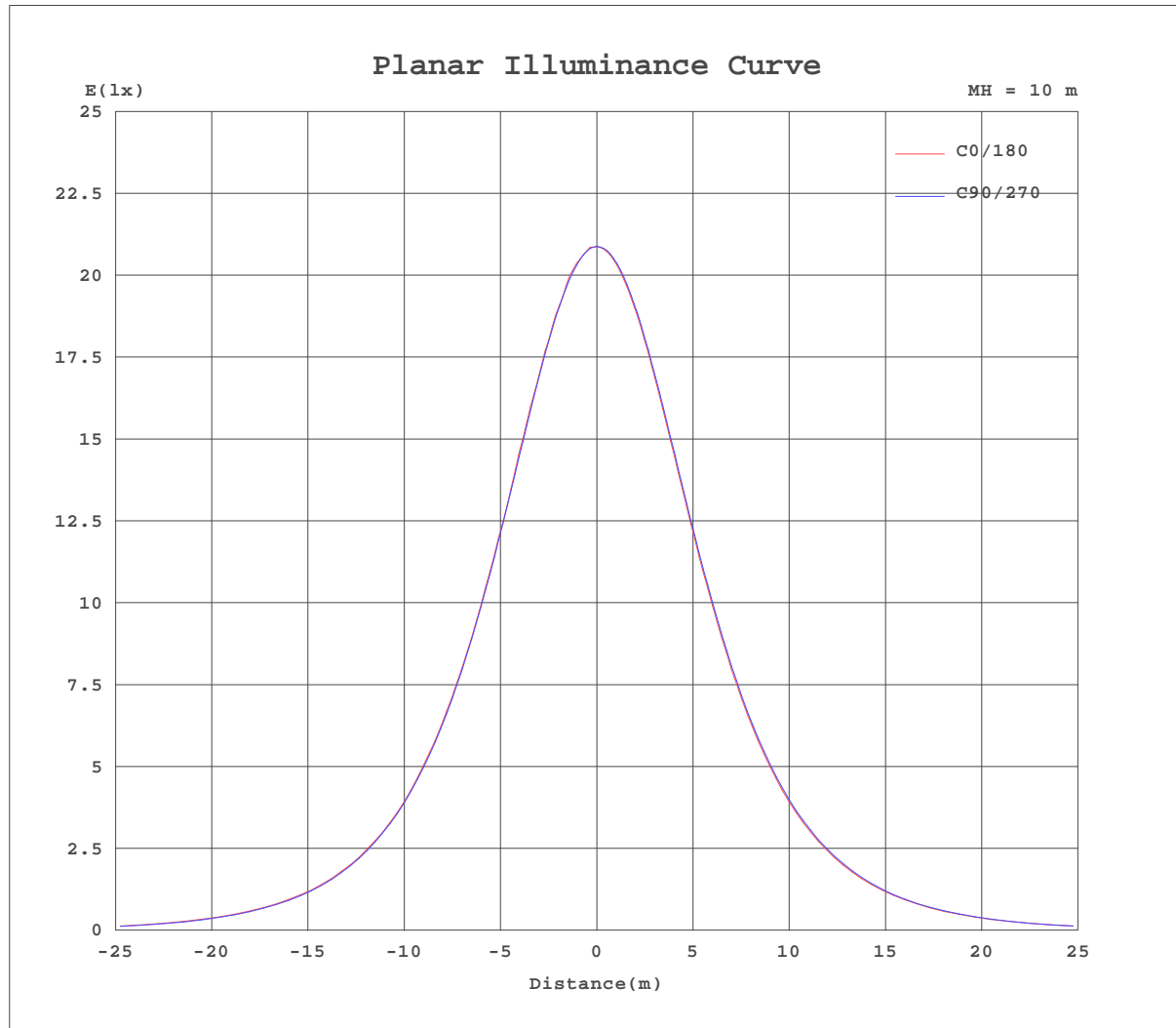


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDCC\NYXNC8RDM9CCT5SDUALDIMWDCC 40W 3500K Diffuser Clear trim H.GOS

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Aaron  
Test Date: 2023-12-05

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 10.627m [K=1.0000]  
Remarks: TRP-231130SHA-01\_F155  
T311301  
8'40W  
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' M\NYXNC8RDM9CCT5SDUALDIMWDC\NYXNC8RDM9CCT5SDUALDIMWDC 40W 3500K Diffuser Clear trim H.GOS