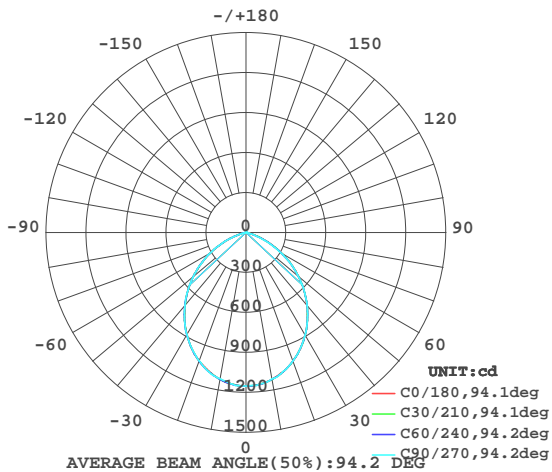


LUMINAIRE PHOTOMETRIC TEST REPORT

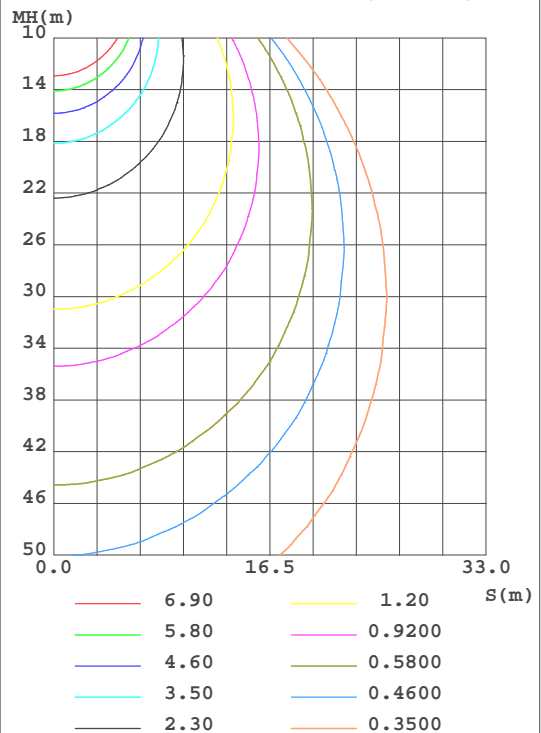
Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.95 lm/W			
MODEL		I _{max} (cd)	1156	S/MH(C0/180)	1.16
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2456.5	h UP,DN(C0-180)	0.1,50.1
NOMINAL FLUX(lm)	2456.54	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,49.8
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

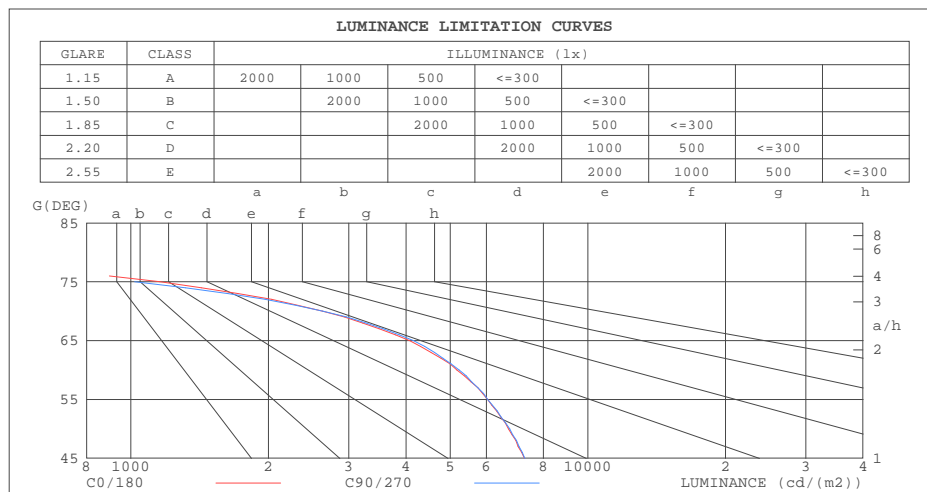
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 10.627m [K=1.0000]
Remarks: TRP-231130SHA-01_F155
T311301
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 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	1117	1119	1116	1124	1120	1119	1117	1124	0- 10	108.5	108.5	4.42
20	1028	1030	1026	1032	1030	1027	1028	1033	10- 20	304.5	413.0	16.8
30	886.6	889.8	887.9	891.8	891.0	889.0	889.1	890.4	20- 30	443.4	856.5	34.9
40	714.2	715.6	715.6	716.7	712.8	713.4	714.8	713.2	30- 40	502.9	1359	55.3
50	517.7	519.9	519.9	519.9	517.1	514.3	516.6	518.6	40- 50	476.0	1835	74.7
60	310.5	311.8	313.5	310.3	307.2	305.7	297.7	309.0	50- 60	369.5	2205	89.8
70	107.9	116.4	108.0	113.6	107.6	106.2	93.49	108.1	60- 70	203.0	2408	98
80	4.304	4.735	3.041	4.482	3.901	3.580	2.659	3.953	70- 80	43.66	2452	99.8
90	0	0	0	0	0	0	0	0	80- 90	1.030	2453	99.8
100	0	0	0	0	0	0	0	0	90-100	0	2453	99.8
110	0	0	0	0	0	0	0	0	100-110	0	2453	99.8
120	0.2216	0.2717	0.2460	0.2411	0.3402	0.2836	0.3577	0.2897	110-120	0.0830	2453	99.8
130	0.7333	0.7716	0.7759	0.7541	0.8457	0.8142	0.8750	0.8023	120-130	0.4749	2453	99.9
140	1.233	1.247	1.281	1.267	1.326	1.302	1.343	1.291	130-140	0.8014	2454	99.9
150	1.671	1.691	1.663	1.699	1.746	1.734	1.744	1.723	140-150	0.9382	2455	99.9
160	2.011	2.024	2.032	2.039	2.067	2.061	2.076	2.063	150-160	0.8673	2456	100
170	2.245	2.265	2.266	2.280	2.289	2.283	2.298	2.285	160-170	0.6118	2456	100
180	2.356	2.363	2.359	2.360	2.350	2.363	2.353	2.360	170-180	0.2215	2457	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	66	63
80	206	146
75	1159	1020
70	2627	2633
65	4073	4153
60	5173	5230
55	6038	6039
50	6709	6748
45	7273	7280

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

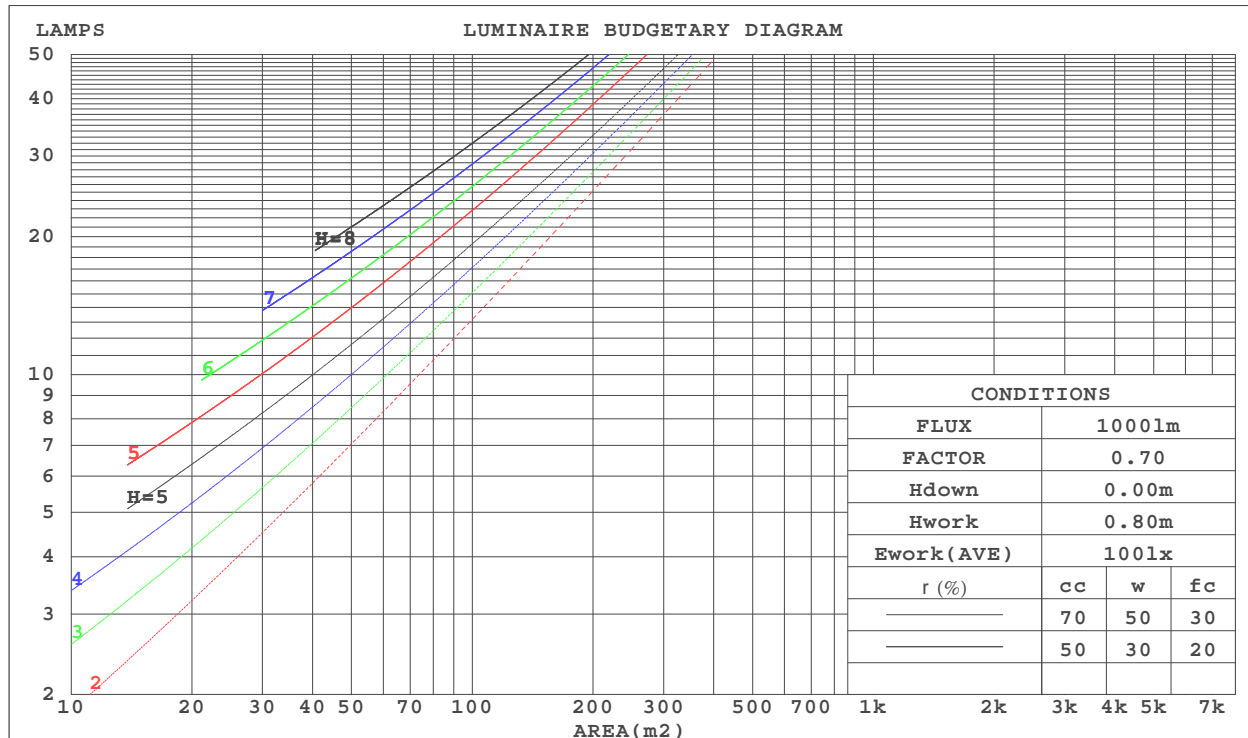
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.627m [K=1.0000]
Remarks: TRP-231130SHA-01_F155
T311301
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDC\NYXNC8RDS9CCT5SDUALDIMWDC 20W 3500K Diffuser Clear trim H.GOS

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	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 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	1.04	1.00	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.89	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.72	.81	.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	.60	.58
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.61	.54	.48	.60	.53	.48	.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	.39	.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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

WEC AND CCEC

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	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	.138	.044	.230	.132	.042	.218	.125	.040	.206	.120	.039	
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.217	.122	.038	.208	.117	.037	
3.0	.234	.124	.037	.228	.122	.037	.218	.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	.151	.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	.177	.158	.140	.152	.136	.121	.104	.093	.084	.060	.054	.049	.019	.017	.016	
2.0	.167	.133	.105	.143	.115	.091	.098	.079	.063	.057	.046	.037	.018	.015	.012	
3.0	.159	.115	.081	.136	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.151	.102	.064	.130	.088	.055	.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	.137	.082	.043	.118	.071	.038	.081	.050	.027	.047	.029	.016	.015	.010	.005	
7.0	.131	.075	.037	.113	.065	.032	.078	.046	.023	.045	.027	.013	.015	.009	.004	
8.0	.125	.070	.032	.107	.060	.028	.074	.042	.020	.043	.025	.012	.014	.008	.004	
9.0	.119	.065	.028	.103	.056	.024	.071	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.114	.060	.025	.098	.052	.022	.068	.037	.015	.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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm											
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC						TYPE:LED			WEIGHT:		
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC						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	18.8	20.2	19.1	20.4	20.6	18.8	20.2	19.1	20.4	20.6	
	3H	19.4	20.6	19.6	20.8	21.1	19.4	20.6	19.7	20.9	21.1
	4H	19.3	20.5	19.7	20.8	21.0	19.3	20.5	19.7	20.8	21.0
	6H	19.3	20.4	19.6	20.6	20.9	19.3	20.4	19.6	20.6	20.9
	8H	19.2	20.3	19.5	20.6	20.8	19.2	20.3	19.5	20.6	20.8
	12H	19.2	20.2	19.5	20.5	20.8	19.2	20.2	19.5	20.5	20.8
4H	2H	19.1	20.3	19.4	20.6	20.8	19.2	20.4	19.5	20.6	20.8
	3H	19.8	20.8	20.1	21.1	21.4	19.8	20.8	20.1	21.1	21.4
	4H	19.8	20.7	20.1	21.0	21.3	19.8	20.7	20.1	21.0	21.3
	6H	19.7	20.5	20.1	20.9	21.2	19.7	20.5	20.1	20.8	21.2
	8H	19.7	20.4	20.1	20.8	21.2	19.6	20.4	20.0	20.7	21.1
	12H	19.6	20.3	20.0	20.7	21.1	19.6	20.3	20.0	20.7	21.1
8H	4H	19.7	20.5	20.1	20.8	21.2	19.7	20.4	20.1	20.8	21.2
	6H	19.6	20.3	20.1	20.7	21.1	19.6	20.2	20.1	20.6	21.1
	8H	19.6	20.1	20.1	20.6	21.0	19.6	20.1	20.0	20.5	21.0
	12H	19.6	20.0	20.0	20.5	20.9	19.5	20.0	20.0	20.4	20.9
12H	4H	19.7	20.4	20.1	20.7	21.1	19.7	20.3	20.1	20.7	21.1
	6H	19.6	20.1	20.1	20.6	21.0	19.6	20.1	20.0	20.5	21.0
	8H	19.6	20.0	20.0	20.5	20.9	19.5	20.0	20.0	20.4	20.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6					
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5					
2.0H	+ 0.9 / - 0.9					+ 0.9 / - 0.9					

CIE Pub.117 Corrected 2457 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.1)

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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	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	73	66	81	72	66	79	73	65	59
1.25	89	80	74	88	79	74	85	78	73	66
1.50	94	85	80	92	84	79	89	83	78	71
2.00	100	93	87	98	92	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	91
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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1606 lm

%lum = 65.4%

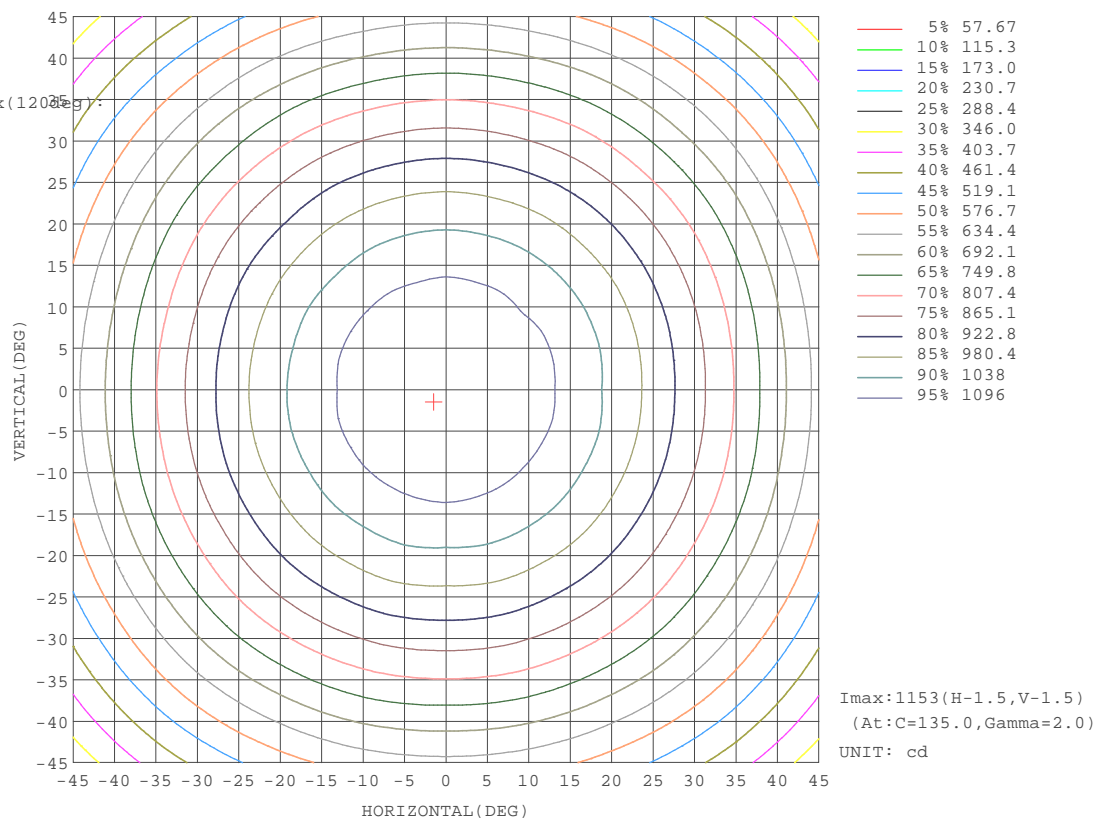
%lamp = 65.4%

Conical surface Flux(120deg):

2204.9 lm

%lum = 89.8%

%lamp = 89.8%



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

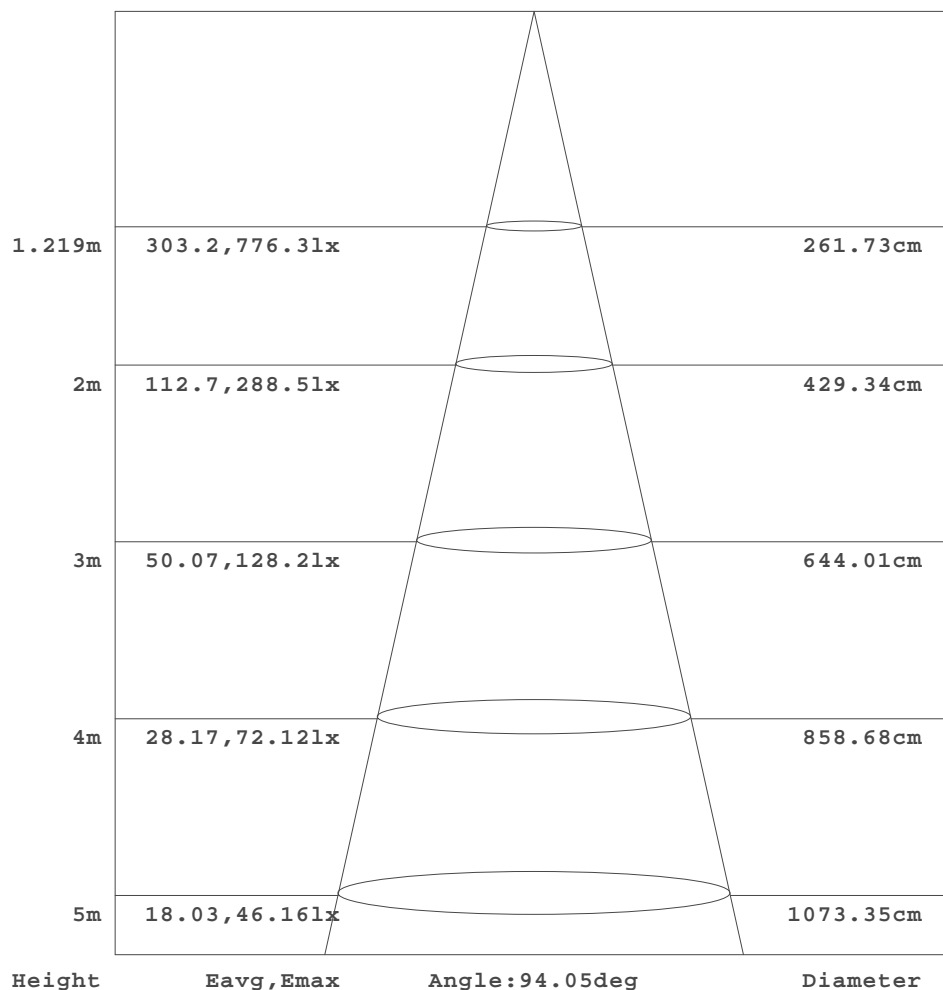
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.627m [K=1.0000]
Remarks: TRP-231130SHA-01_F155
T311301
8'20W
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\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

AAI Figure

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Flux out:1746 lm



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

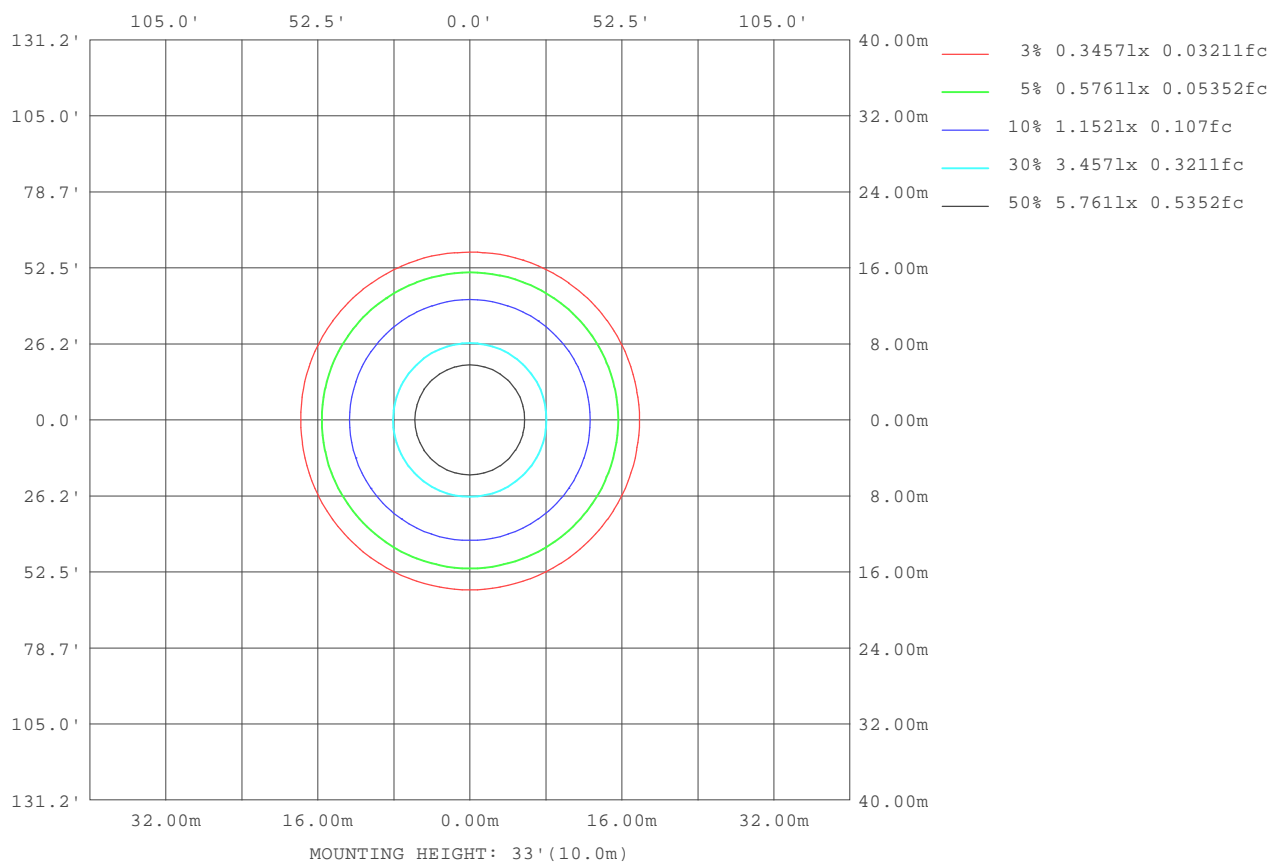
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Aaron
Test Date: 2023-12-05

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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 3500K Diffuser Clear trim H.GOS

ISOLUX DIAGRAM

Test:U:120.3V I:0.1709A P:20.31W PF:0.9867 Lamp Flux:2456.54x1 lm		
NAME: NYXNC8RDS9CCT5SDUALDIMWDCC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RDS9CCT5SDUALDIMWDCC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

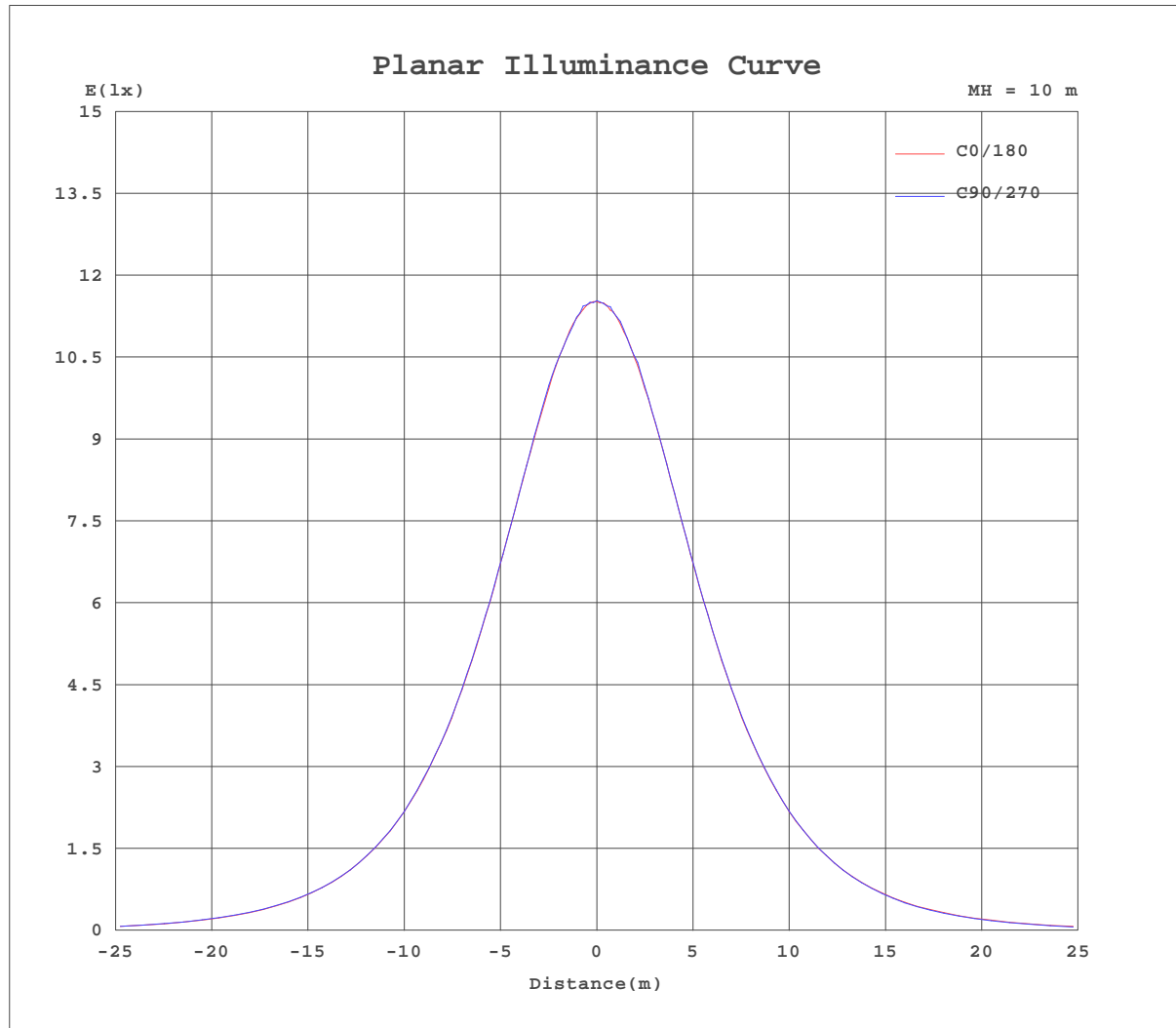


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2023-12-05

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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDCC\NYXNC8RDS9CCT5SDUALDIMWDCC 20W 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
8'20W
3500K Diffuser Clear trim H

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMWDC\NYXNC8RDS9CCT5SDUALDIMWDC 20W 3500K Diffuser Clear trim H.GOS