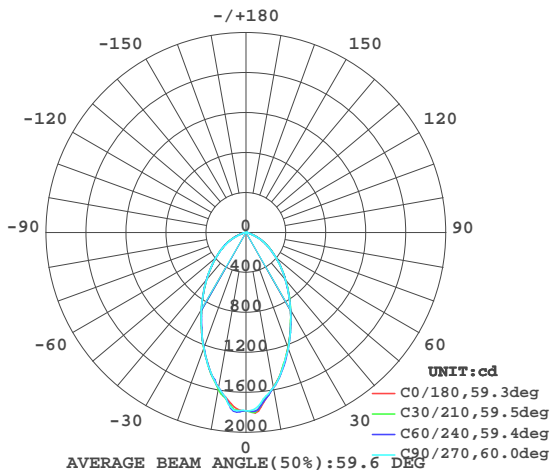


LUMINAIRE PHOTOMETRIC TEST REPORT

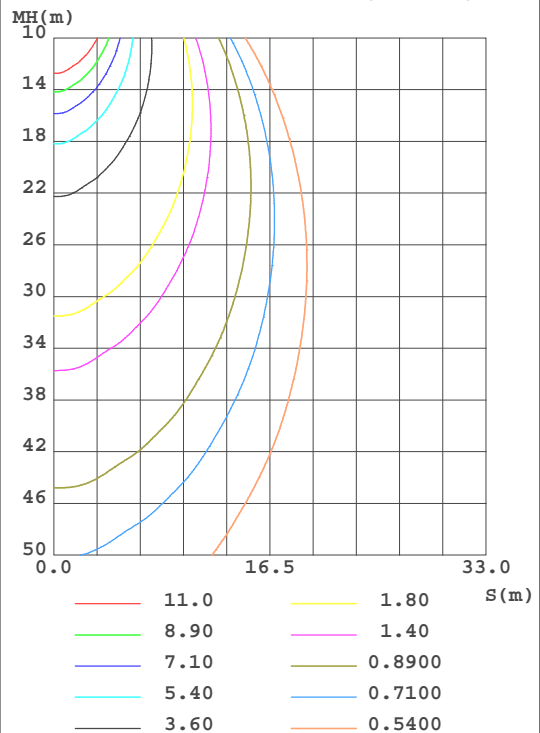
Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.21 lm/W			
MODEL		Imax(cd)	1808	S/MH(C0/180)	0.84
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2356.8	h UP,DN(C0-180)	0.1,50.1
NOMINAL FLUX(lm)	2356.76	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,49.8
LAMPS INSIDE	1	h up(%)	0.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	h down(%)	99.9	CIBSE SHR MAX	1.00

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

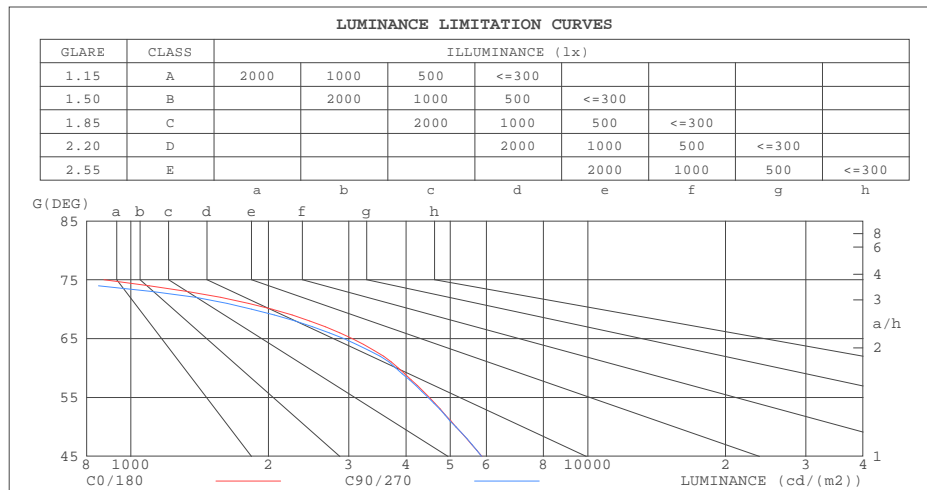
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.627m [K=1.0000]
Remarks: TRP-231130SHA-01_F155
T311301
8'20W
3500K LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.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	1581	1583	1579	1593	1574	1577	1579	1568	0~ 10	160.0	160.0	6.79
20	1235	1231	1235	1240	1231	1239	1236	1234	10~ 20	395.1	555.1	23.6
30	895.2	892.1	898.1	900.4	893.0	890.9	889.7	896.9	20~ 30	486.3	1041	44.2
40	614.0	616.3	615.6	621.1	616.2	615.4	613.9	617.2	30~ 40	467.9	1509	64
50	396.6	397.0	396.9	398.9	396.2	396.6	393.3	396.3	40~ 50	385.4	1895	80.4
60	230.7	230.1	228.3	229.4	227.2	228.7	221.1	228.2	50~ 60	274.6	2169	92
70	83.43	87.58	75.40	87.12	83.28	83.46	71.92	82.66	60~ 70	151.3	2321	98.5
80	2.184	2.355	1.471	2.381	2.158	1.956	1.224	1.736	70~ 80	32.57	2353	99.8
90	0	0	0	0	0	0	0	0	80~ 90	0.4291	2354	99.9
100	0	0	0	0	0	0	0	0	90~100	0	2354	99.9
110	0	0	0	0	0	0	0	0	100~110	0	2354	99.9
120	0.0366	0.0803	0.0367	0.0438	0.1420	0.0614	0.1364	0.0736	110~120	0.0101	2354	99.9
130	0.4554	0.5050	0.4747	0.4760	0.5729	0.5041	0.5863	0.5183	120~130	0.2532	2354	99.9
140	0.9413	0.9790	0.9677	0.9511	1.035	1.015	1.055	0.9938	130~140	0.5736	2354	99.9
150	1.452	1.484	1.449	1.469	1.539	1.520	1.548	1.512	140~150	0.7746	2355	99.9
160	1.933	1.939	1.942	1.933	1.995	1.988	2.005	1.975	150~160	0.7967	2356	100
170	2.265	2.284	2.281	2.272	2.308	2.314	2.307	2.290	160~170	0.6017	2357	100
180	2.419	2.444	2.418	2.414	2.425	2.425	2.411	2.420	170~180	0.2250	2357	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

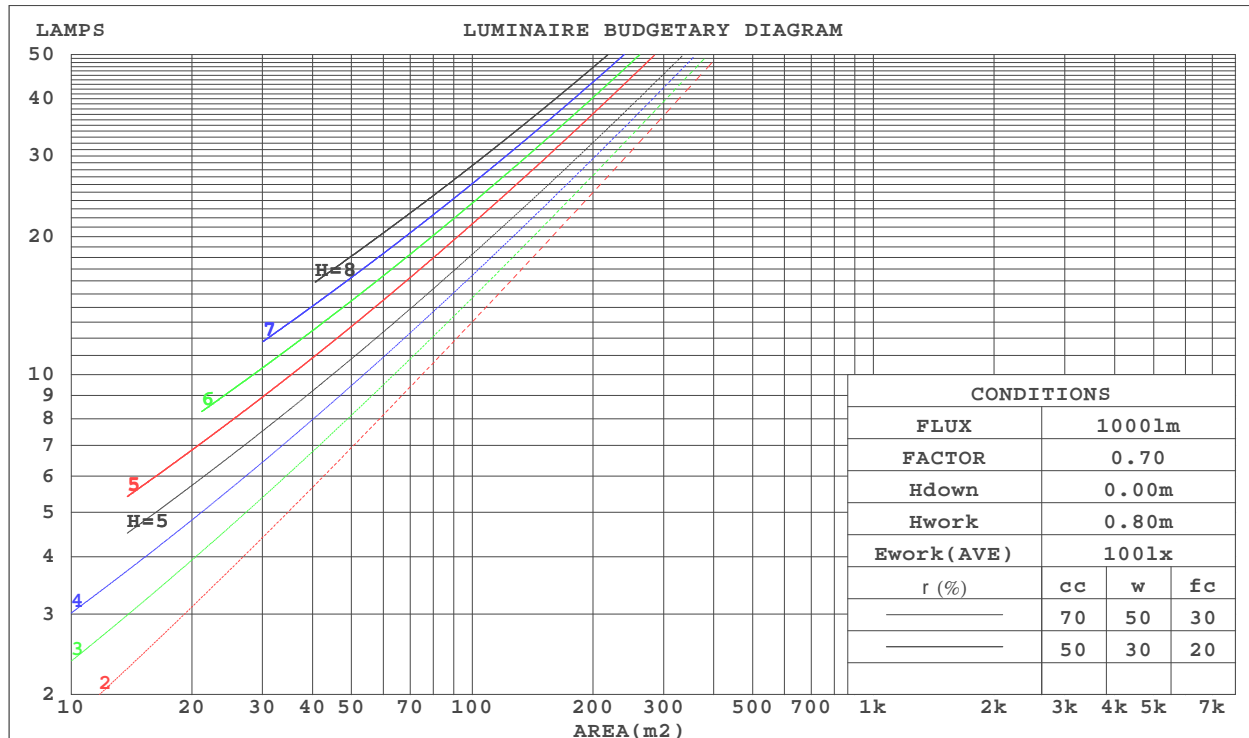
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 10.627m [K=1.0000]
Remarks: TRP-231130SHA-01_F155
T311301
8'20W
3500K LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	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															



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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

WEC AND CCEC

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	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	.231	.131	.042	.224	.128	.041	.211	.121	.039	.199	.115	.037	.188	.109	.035	
2.0	.226	.124	.038	.220	.121	.037	.209	.116	.036	.199	.111	.035	.189	.107	.034	
3.0	.215	.115	.034	.210	.113	.034	.200	.109	.033	.191	.105	.032	.183	.101	.031	
4.0	.204	.106	.031	.199	.104	.031	.190	.101	.030	.182	.098	.030	.175	.095	.029	
5.0	.192	.098	.028	.188	.096	.028	.180	.094	.028	.173	.091	.027	.167	.089	.027	
6.0	.181	.091	.026	.177	.090	.026	.170	.087	.025	.164	.085	.025	.158	.083	.025	
7.0	.171	.084	.024	.167	.083	.024	.161	.082	.023	.156	.080	.023	.150	.078	.023	
8.0	.161	.079	.022	.158	.078	.022	.153	.076	.022	.148	.075	.022	.143	.073	.021	
9.0	.152	.074	.021	.150	.073	.021	.145	.072	.020	.141	.070	.020	.136	.069	.020	
10.0	.145	.069	.019	.142	.069	.019	.138	.068	.019	.134	.066	.019	.130	.065	.019	

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	.176	.158	.142	.151	.136	.122	.103	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.165	.133	.107	.141	.115	.093	.097	.079	.065	.056	.046	.038	.018	.015	.012	
3.0	.155	.115	.083	.133	.099	.072	.091	.069	.051	.053	.040	.030	.017	.013	.010	
4.0	.147	.101	.066	.126	.087	.057	.087	.061	.040	.050	.036	.024	.016	.012	.008	
5.0	.139	.090	.054	.119	.078	.047	.082	.054	.033	.048	.032	.020	.015	.010	.006	
6.0	.132	.081	.045	.114	.070	.039	.078	.049	.028	.045	.029	.016	.015	.009	.005	
7.0	.126	.074	.038	.108	.064	.033	.075	.045	.024	.043	.027	.014	.014	.009	.005	
8.0	.120	.068	.033	.103	.059	.029	.071	.042	.020	.042	.025	.012	.013	.008	.004	
9.0	.114	.063	.029	.099	.055	.025	.068	.039	.018	.040	.023	.011	.013	.007	.004	
10.0	.109	.059	.026	.094	.051	.022	.065	.036	.016	.038	.021	.009	.012	.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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm											
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC						TYPE:LED		WEIGHT:			
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC						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	17.2	18.5	17.5	18.7	18.9	17.2	18.4	17.4	18.6	18.8	
	3H	17.8	18.9	18.0	19.1	19.3	17.6	18.8	17.9	19.0	19.2
	4H	17.8	18.8	18.1	19.1	19.3	17.6	18.7	17.9	18.9	19.1
	6H	17.7	18.7	18.0	18.9	19.2	17.5	18.5	17.8	18.8	19.0
	8H	17.6	18.6	17.9	18.9	19.1	17.4	18.4	17.8	18.7	19.0
	12H	17.6	18.5	17.9	18.8	19.1	17.4	18.3	17.7	18.6	18.9
4H	2H	17.5	18.6	17.8	18.8	19.1	17.5	18.6	17.8	18.8	19.0
	3H	18.1	19.1	18.5	19.4	19.6	18.0	18.9	18.3	19.2	19.5
	4H	18.2	19.0	18.5	19.3	19.6	17.9	18.8	18.3	19.1	19.4
	6H	18.1	18.8	18.5	19.2	19.5	17.9	18.6	18.2	19.0	19.3
	8H	18.0	18.7	18.4	19.1	19.5	17.8	18.5	18.2	18.9	19.2
	12H	18.0	18.6	18.4	19.0	19.4	17.8	18.4	18.2	18.8	19.2
8H	4H	18.1	18.8	18.5	19.1	19.5	17.9	18.6	18.3	18.9	19.3
	6H	18.0	18.6	18.4	19.0	19.4	17.8	18.4	18.2	18.8	19.2
	8H	18.0	18.5	18.4	18.9	19.3	17.7	18.2	18.2	18.7	19.1
	12H	17.9	18.3	18.4	18.8	19.3	17.7	18.1	18.2	18.6	19.1
12H	4H	18.0	18.7	18.5	19.0	19.4	17.8	18.5	18.3	18.8	19.2
	6H	18.0	18.5	18.4	18.9	19.3	17.7	18.2	18.2	18.7	19.1
	8H	17.9	18.3	18.4	18.8	19.3	17.7	18.1	18.2	18.6	19.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.7 / - 0.9					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 1.0 / - 0.9					+ 1.0 / - 1.1					

CIE Pub.117 Corrected 2357 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.0)

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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	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	69	59	53	68	59	53	67	58	53	48
0.80	79	69	63	78	69	63	76	68	63	57
1.00	86	77	72	85	77	71	83	78	71	65
1.25	92	84	79	91	84	78	89	82	78	72
1.50	96	89	84	95	88	83	92	87	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	105	99	94	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	106	110	107	104	105	103	101	92
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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1714.7 lm

%lum = 72.8%

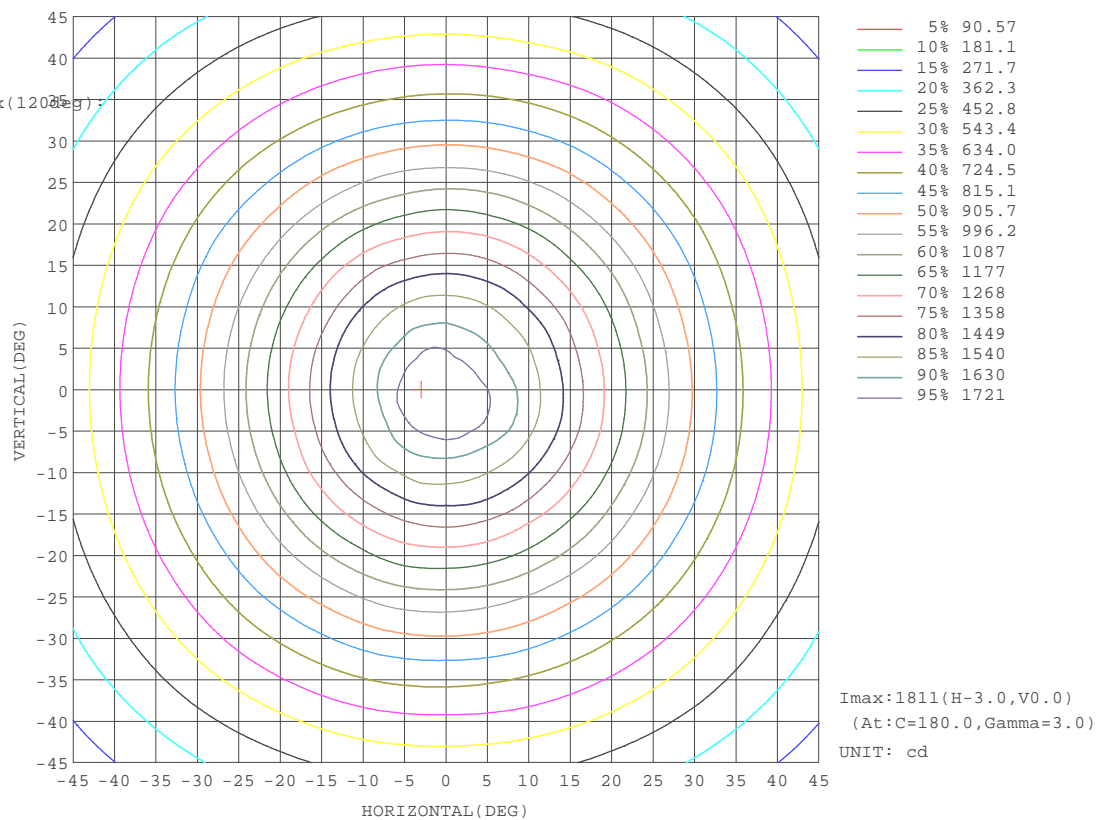
%lamp = 72.8%

Conical surface Flux(120deg):

2169.3 lm

%lum = 92.0%

%lamp = 92.0%



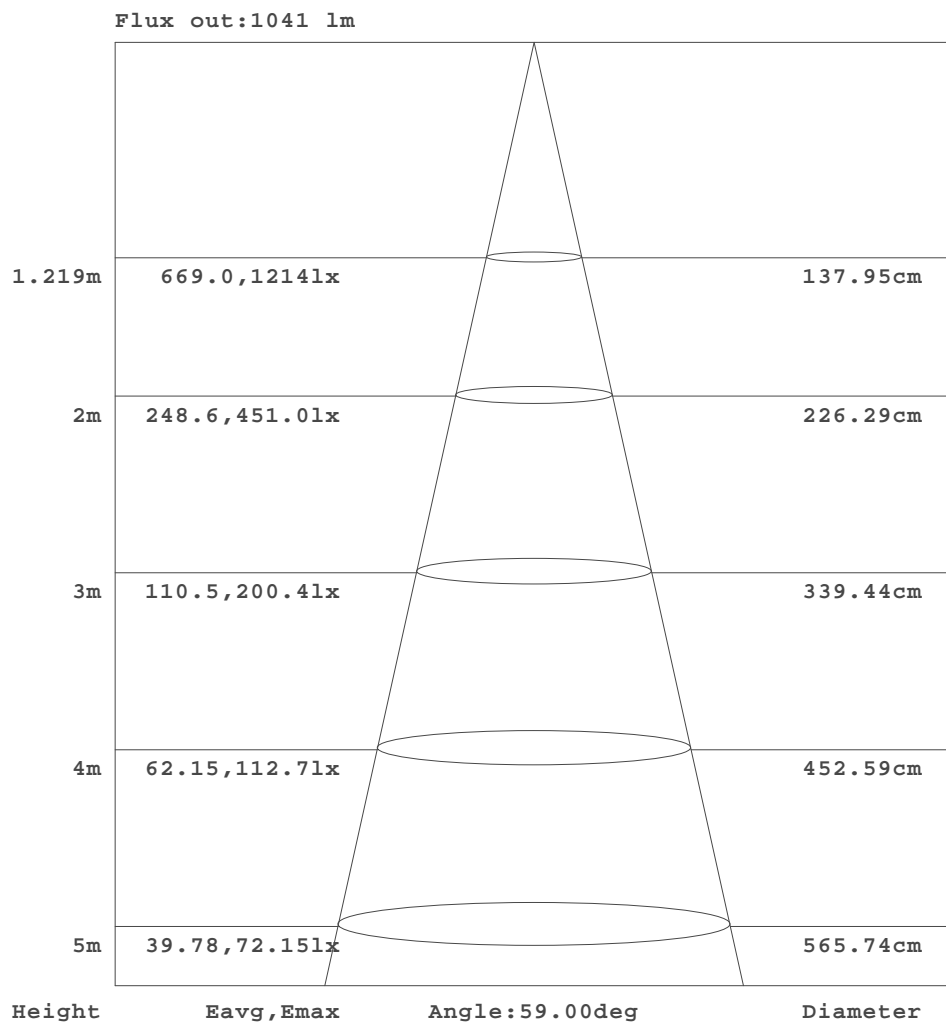
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2023-12-05

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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS

AAI Figure

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	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.

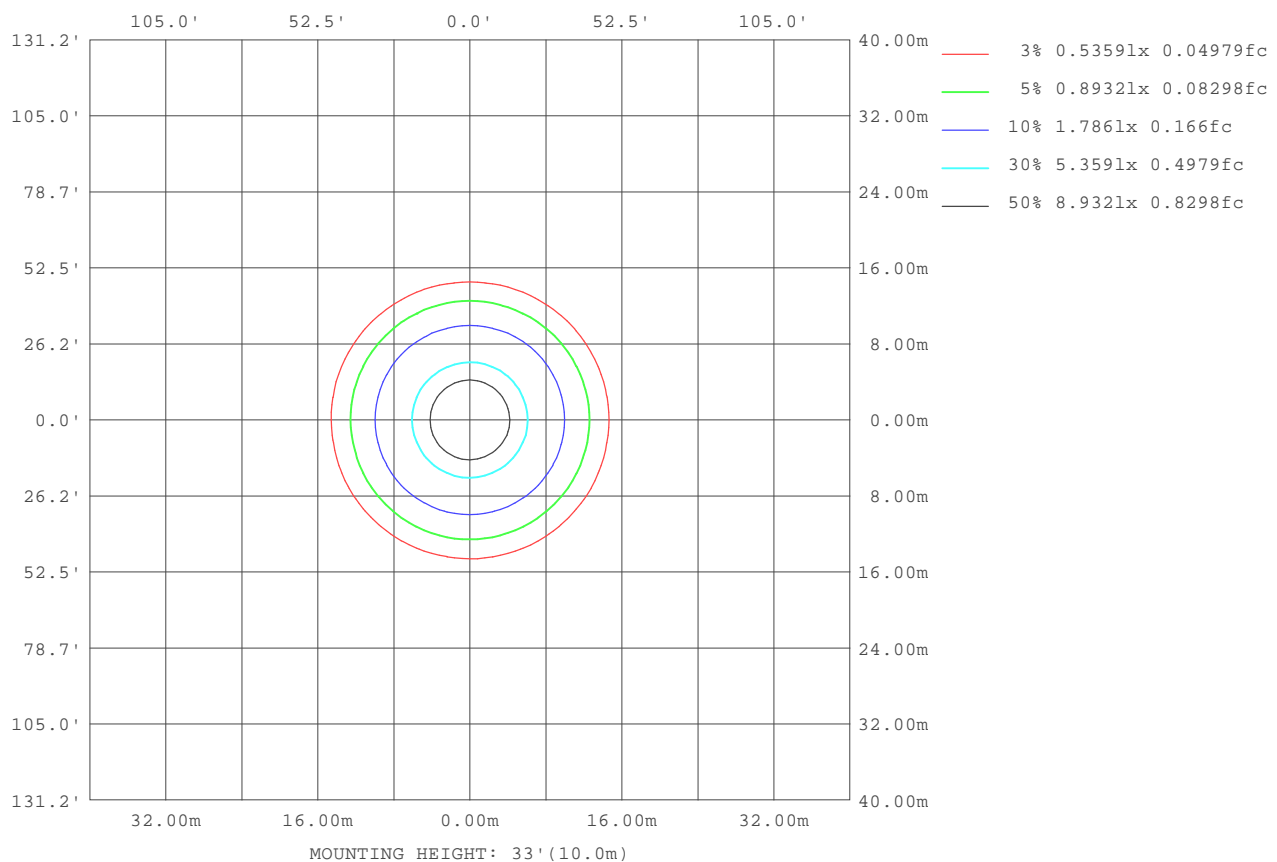
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Aaron
Test Date: 2023-12-05

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
8'20W
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\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMDCC (OK)\NYXNC8RDS9CCT5SDUALDIMDCC 20W 3500K LENS Clear trim.GOS

ISOLUX DIAGRAM

Test:U:120.3V I:0.1710A P:20.28W PF:0.9868 Lamp Flux:2356.76x1 lm		
NAME: NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	TYPE:LED	WEIGHT:
SPEC.:NYXNC8RD/S9CCT5S/DUALDIM/MD/CC	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

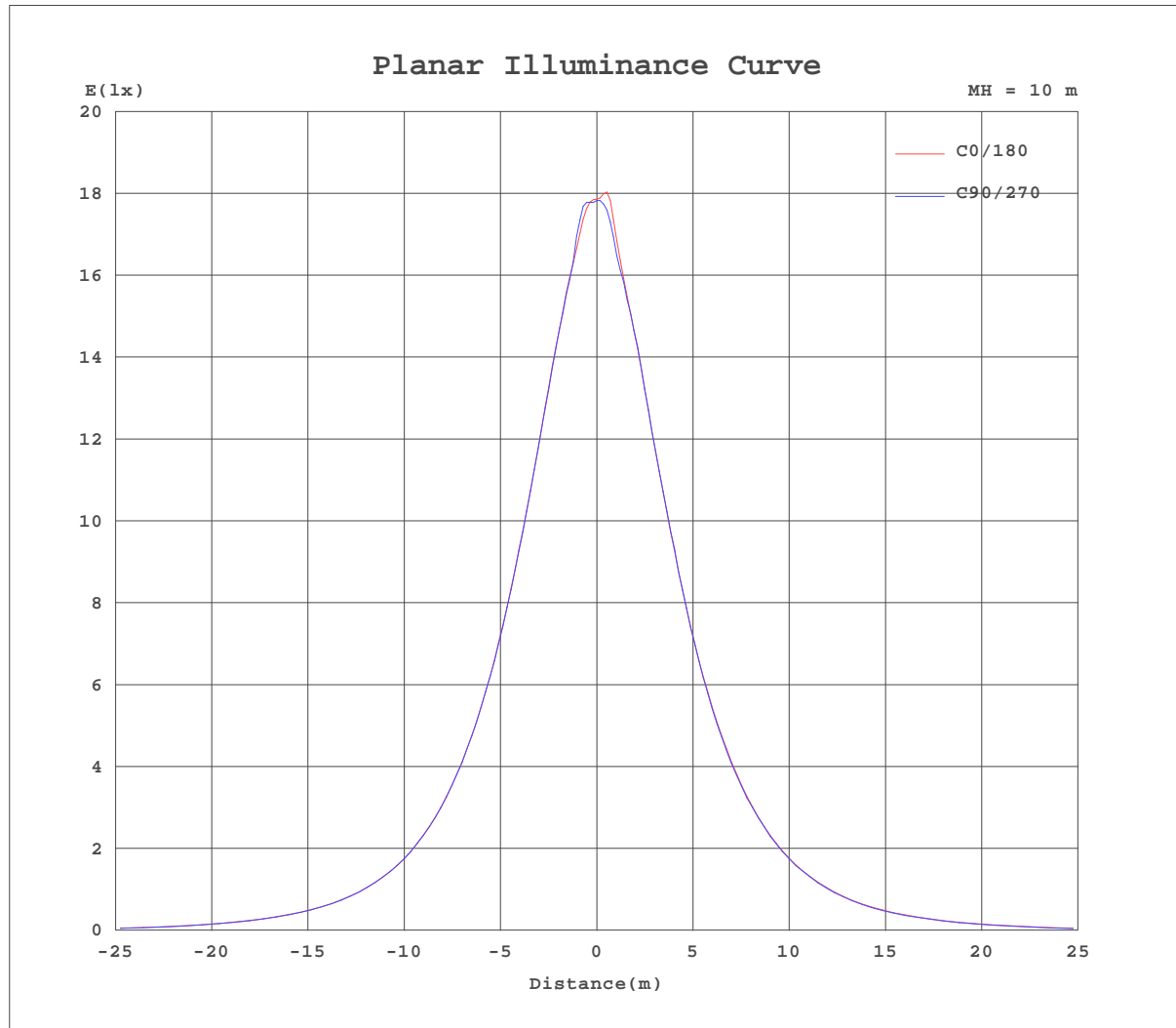


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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g Range: 0 - 180DEG
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Remarks: TRP-231130SHA-01_F155
T311301
8'20W
3500K LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDCC (OK)\NYXNC8RDS9CCT5SDUALDIMMDCC 20W 3500K LENS Clear trim.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 LENS Clear trim

\\192.168.8.200\qa\Lab\temporary\IES Files\8'' S\NYXNC8RDS9CCT5SDUALDIMMDC (OK)\NYXNC8RDS9CCT5SDUALDIMMDC 20W 3500K LENS Clear trim.GOS