

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	928.2 cd per klm.
(Luminaire orientation as tested.)	10.5 degrees vertical
	-17.5 degrees horizontal

Beam Spread	At 10% of I _{max}	101.5V x 102.8H
	At 50% of I _{max}	64.7V x 55.1H
	At 90% of I _{max}	24.8V x 19.3H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of I _{max}	900.0 lumens per klm.
	To 50% of I _{max}	495.5 lumens per klm.
	To 90% of I _{max}	111.7 lumens per klm.

Upward LOR	1.2 %
Downward LOR	98.8 %

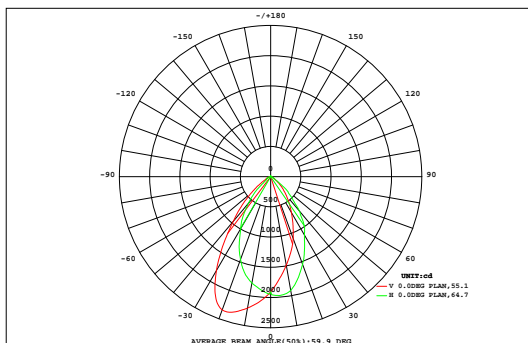
Luminaire Efficiency(Light Output Ratio)	100.0 %
--	---------

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.886m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:85.900V I:0.1750A P:15.033W PF:1.0000 Freq:0Hz Lamp Flux:2608.62x1 lm		
NAME: C165-C216N-P	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.9*0.08	Shielding Angle:



DATA OF LAMP		Eff:173.53lm/W	
MODEL	C165-C216N-P	Imax(cd)	2421
NOMINAL POWER(W)	15.0325	AVAILABILITY(%)	90.0
RATED VOLTAGE(V)	85.9	Avai. FLUX(lm)	2349
NOMINAL FLUX(lm)	2608.62	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2609
TEST VOLTAGE(V)	85.9	θ @50%(H,V)	55,65DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.06	0.16	0.28	0.41	0.55	0.61	0.56	0.47	0.42	0.43	0.41	0.33	0.21	0.12	0.06	0.03	0.01	5.13	0.00
90	0.01	0.09	0.25	0.50	0.78	1.03	1.18	1.18	1.09	1.03	1.00	0.90	0.70	0.45	0.24	0.11	0.04	0.01	10.6	0.00
80	0.01	0.12	0.39	0.84	1.29	1.69	1.96	2.02	1.92	1.86	1.85	1.65	1.21	0.76	0.42	0.19	0.06	0.01	18.3	0.00
70	0.02	0.16	0.58	1.22	1.89	2.93	5.07	6.36	5.92	5.14	4.65	3.63	2.12	1.19	0.62	0.29	0.09	0.01	41.9	11.6
60	0.02	0.21	0.76	1.59	3.65	8.85	15.8	19.1	17.4	14.9	12.7	8.98	4.42	1.87	0.87	0.40	0.12	0.01	112	97.7
50	0.02	0.26	0.90	2.23	7.56	16.1	26.7	33.0	31.5	26.1	19.9	13.8	7.64	3.00	1.16	0.50	0.15	0.02	190	181
40	0.02	0.30	1.01	3.33	10.8	24.2	41.9	50.8	46.2	36.6	26.7	17.6	10.1	4.48	1.51	0.58	0.18	0.02	276	268
30	0.03	0.33	1.08	4.19	13.4	32.3	57.1	65.4	59.6	44.7	33.4	21.1	12.3	5.75	1.87	0.64	0.20	0.02	353	346
20	0.03	0.33	1.11	4.47	14.7	34.9	59.8	68.9	64.0	49.6	37.7	23.9	13.4	6.33	2.07	0.67	0.21	0.02	382	375
10	0.03	0.33	1.10	4.26	14.3	32.7	56.2	66.1	60.6	49.5	36.9	24.2	13.6	6.34	2.05	0.67	0.21	0.02	369	362
0	0.03	0.32	1.07	3.62	12.3	27.1	46.5	56.1	52.6	43.6	32.3	21.9	12.7	5.76	1.83	0.65	0.20	0.02	319	311
-10	0.02	0.29	1.00	2.65	9.08	19.5	31.0	37.8	39.2	33.6	24.8	17.2	10.1	4.34	1.50	0.60	0.18	0.02	233	224
-20	0.02	0.25	0.88	1.92	5.24	11.6	18.1	22.7	24.5	22.0	16.1	10.6	5.99	2.69	1.20	0.52	0.15	0.02	144	132
-30	0.02	0.20	0.73	1.54	2.62	4.84	7.88	10.4	11.4	10.1	7.25	4.42	2.80	1.73	0.93	0.42	0.12	0.01	67.4	41.4
-40	0.02	0.15	0.52	1.16	1.79	2.31	2.66	3.15	3.15	2.89	2.63	2.23	1.73	1.16	0.68	0.31	0.09	0.01	26.6	0.00
-50	0.01	0.11	0.35	0.73	1.17	1.53	1.78	1.89	1.86	1.77	1.64	1.39	1.08	0.74	0.42	0.20	0.06	0.01	16.7	0.00
-60	0.01	0.06	0.22	0.42	0.64	0.88	1.01	1.04	0.99	0.91	0.81	0.66	0.49	0.34	0.21	0.10	0.04	0.01	8.83	0.00
-70	0.01	0.03	0.09	0.17	0.25	0.32	0.36	0.35	0.31	0.27	0.24	0.19	0.15	0.12	0.10	0.07	0.03	0.01	3.06	0.00
-80	0.01	0.03	0.09	0.17	0.25	0.32	0.36	0.35	0.31	0.27	0.24	0.19	0.15	0.12	0.10	0.07	0.03	0.01	3.06	0.00
-90	0.01	0.03	0.09	0.17	0.25	0.32	0.36	0.35	0.31	0.27	0.24	0.19	0.15	0.12	0.10	0.07	0.03	0.01	3.06	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.33	3.60	12.2	35.1	102	223	376	447	423	345	261	175	101	47.3	17.8	7.00	2.16	0.25	2577	---
Φ a	0.00	0.00	0.00	12.0	85.2	209	362	433	408	331	246	159	83.1	21.5	0.00	0.00	0.00	0.00	---	2349

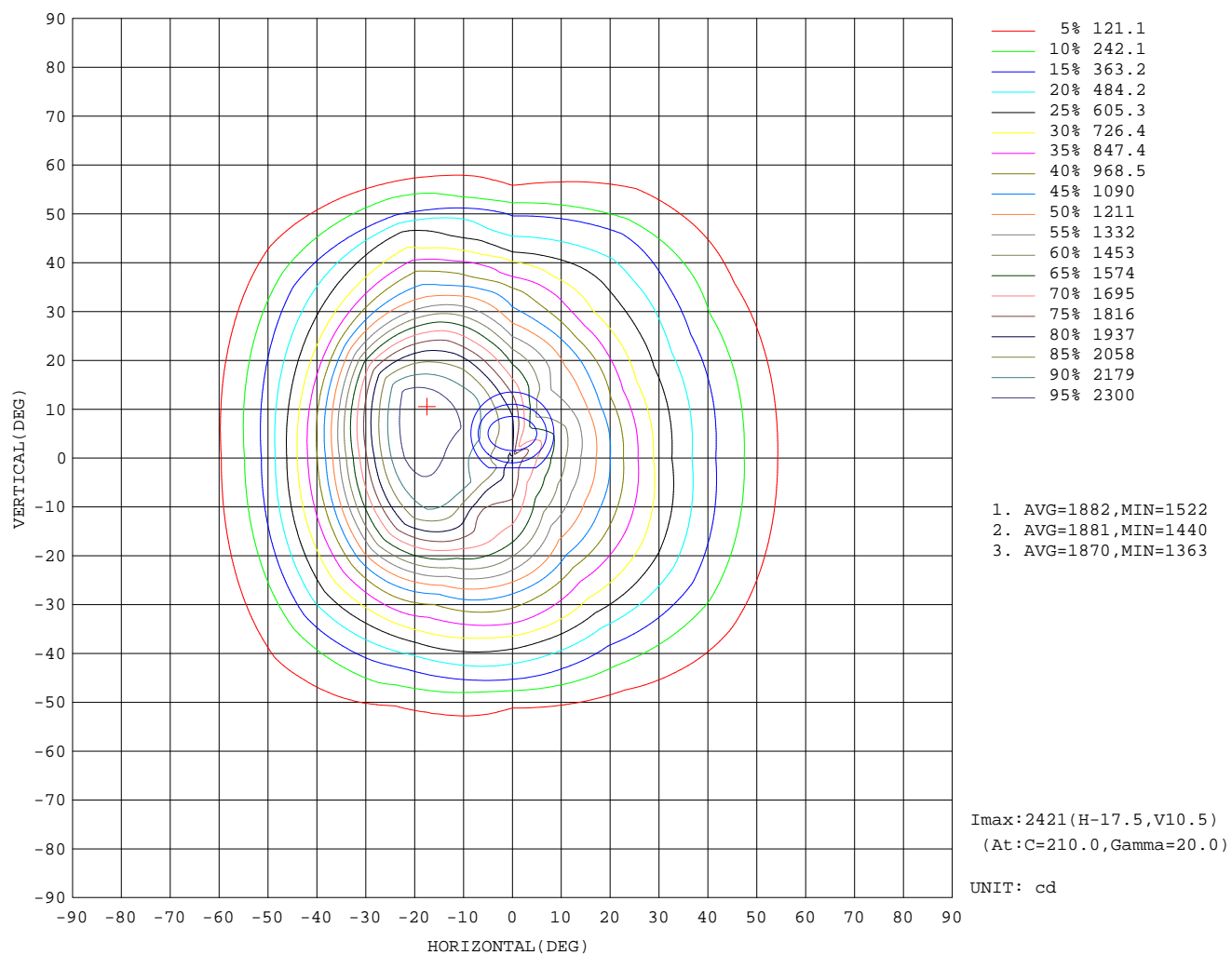
one-half-peak spread: U:34.5,D:30.6 , L:18.3,R:37.3

NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.886m [K=1.0000]
Remarks:

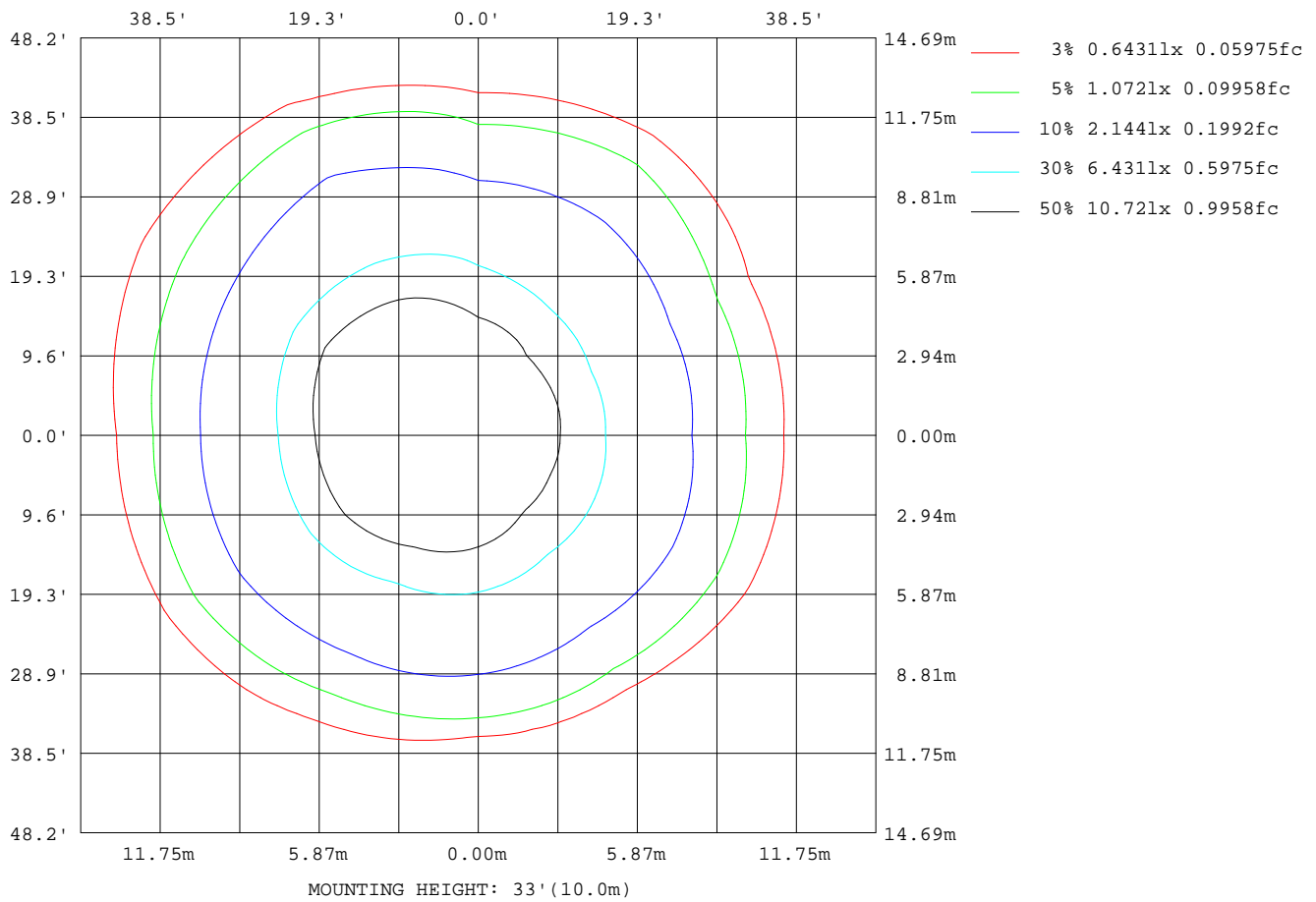
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.886m [K=1.0000]
Remarks:

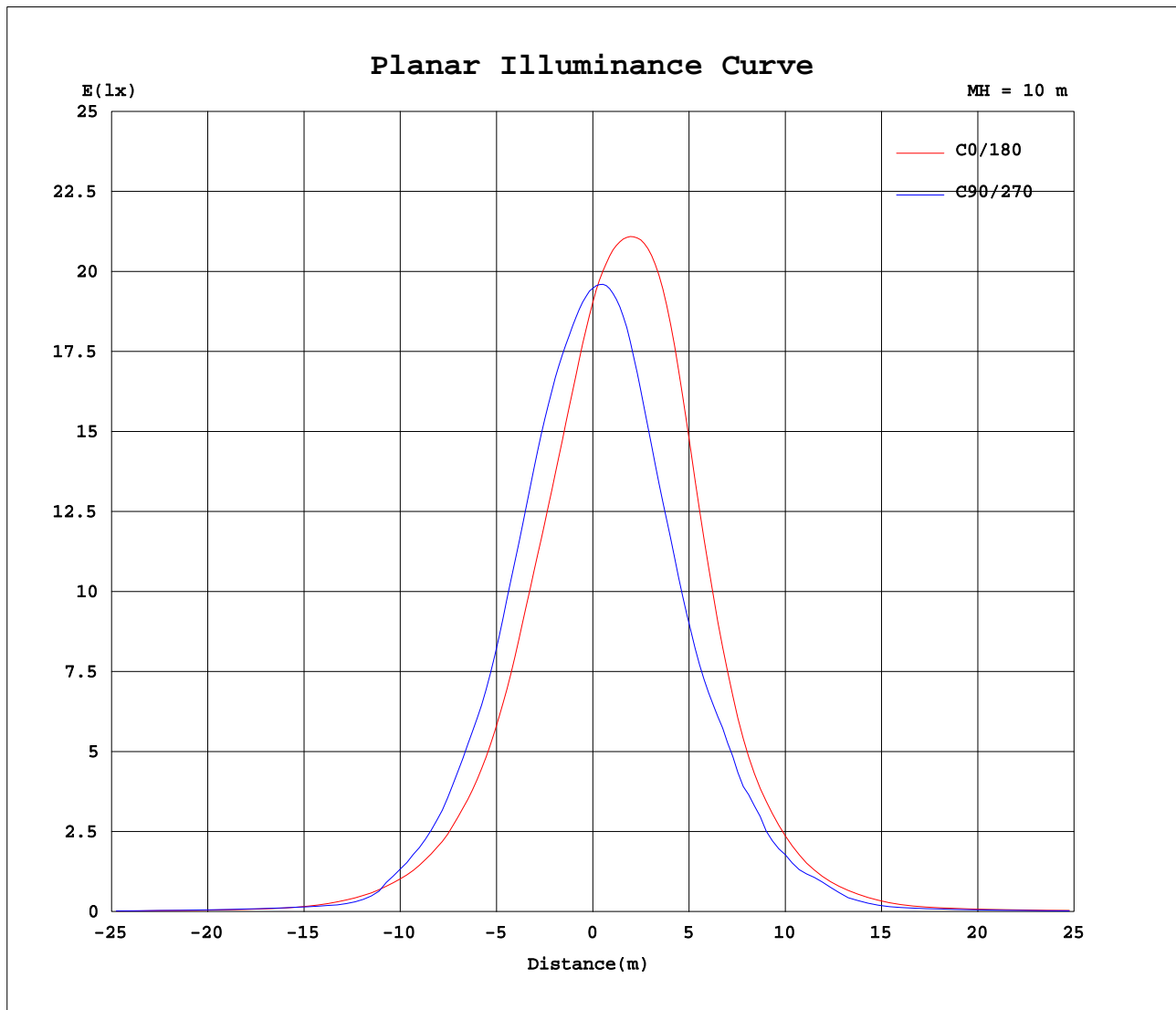
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2022-01-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.886m [K=1.0000]
Remarks:

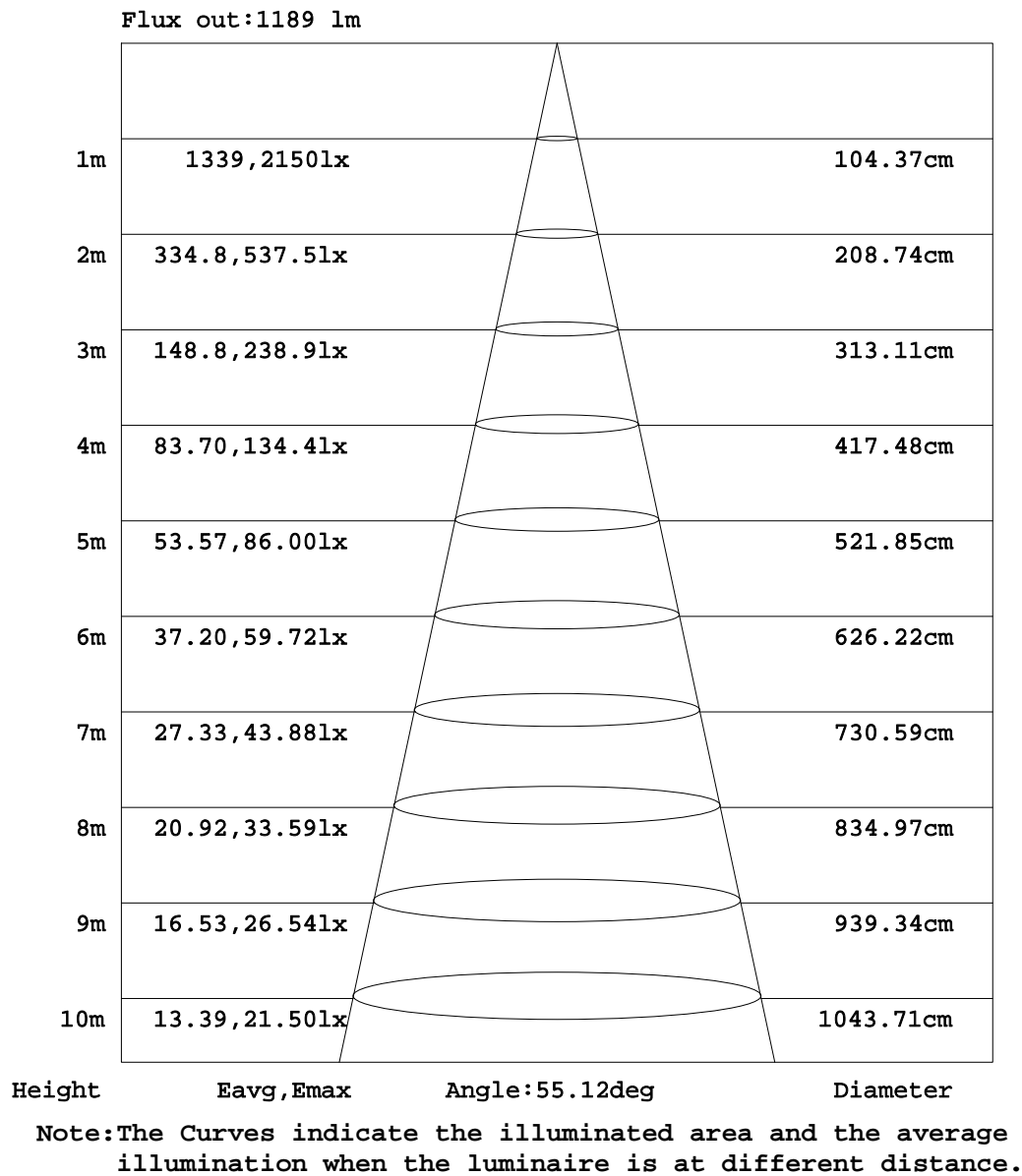
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2022-01-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.886m [K=1.0000]
Remarks:

AAI Figure



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2022-01-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.886m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1.08	0.41	0.53	0.75	1.05	1.46	1.99	2.62	3.40	4.29	5.28	6.41	7.63	8.89	10.2	11.5	12.8	14.0	15.3
-170	1.08	0.49	0.58	0.78	1.04	1.40	1.88	2.46	3.16	3.96	4.85	5.83	6.88	7.97	9.06	10.2	11.3	12.4	14.6
-160	1.08	0.57	0.63	0.81	1.00	1.29	1.69	2.17	2.73	3.40	4.10	4.86	5.68	6.69	7.66	8.60	9.57	11.1	12.4
-150	1.08	0.66	0.69	0.86	0.95	1.15	1.44	1.80	2.21	2.68	3.23	3.97	4.73	5.48	6.19	6.90	7.78	8.65	9.38
-140	1.08	0.77	0.78	0.88	0.95	1.04	1.20	1.44	1.69	2.11	2.62	3.18	3.76	4.35	4.84	5.31	5.78	6.20	6.53
-130	1.08	0.89	0.90	0.90	1.07	1.03	1.06	1.14	1.43	1.83	2.19	2.52	2.89	3.24	3.53	3.75	3.96	4.12	4.23
-120	1.08	1.04	1.17	1.12	1.06	1.23	1.20	1.21	1.49	1.82	2.16	2.49	2.77	2.92	2.89	2.90	2.91	2.93	2.94
-110	1.08	1.21	1.55	1.61	1.53	1.51	1.39	1.78	2.08	2.29	2.53	2.81	3.11	3.06	2.88	2.72	2.57	2.42	2.28
-100	1.08	1.41	1.97	2.44	2.79	2.99	2.99	2.82	2.86	3.05	3.35	3.72	4.17	4.00	3.70	3.42	3.15	2.88	2.61
-90	1.08	1.83	2.59	3.34	4.09	4.85	5.60	5.85	6.09	6.33	6.58	6.82	7.06	6.51	5.96	5.42	4.87	4.32	3.77
-80	1.08	2.26	3.48	5.08	7.53	11.2	16.1	16.1	17.3	18.6	19.6	20.5	21.7	22.0	21.8	21.0	19.7	18.1	16.1
-70	1.08	2.77	5.57	10.8	15.3	21.9	27.3	31.8	35.7	40.4	44.6	47.0	46.1	47.5	49.5	49.9	49.2	48.0	46.3
-60	1.08	3.47	8.72	15.3	23.4	31.4	41.9	55.0	63.5	68.4	73.6	77.2	80.4	79.5	78.2	78.3	78.6	77.8	75.9
-50	1.08	4.24	10.5	20.5	31.7	48.9	64.6	76.7	90.3	98.2	104	113	123	132	169	184	179	168	146
-40	1.08	4.98	13.2	26.0	43.1	63.4	79.1	97.2	117	154	224	316	391	453	502	560	589	590	566
-30	1.08	5.55	15.3	31.1	52.6	72.4	91.8	117	188	329	484	622	751	875	950	982	1034	1038	995
-20	1.08	5.85	17.0	35.5	60.0	79.2	102	161	306	492	703	923	1201	1425	1571	1626	1613	1572	1459
-10	1.08	5.89	17.9	38.3	63.3	82.2	111	213	389	617	873	1209	1590	1923	2140	2184	2022	1815	1785
0	1.08	5.68	17.8	38.8	63.9	81.7	114	235	417	670	961	1364	1795	2166	2344	2316	2206	2072	1904
10	1.08	5.96	18.1	39.0	63.5	82.2	116	241	416	650	952	1373	1839	2201	2391	2380	2261	2126	1911
20	1.08	6.04	17.4	37.1	60.3	79.7	106	202	367	553	788	1144	1574	1877	2022	2035	1963	1781	1542
30	1.08	5.93	15.8	33.4	54.6	74.7	92.3	139	275	424	589	774	1008	1211	1350	1420	1393	1283	1119
40	1.08	5.63	13.9	27.7	45.8	64.0	81.7	98.5	145	253	370	509	648	755	876	879	861	810	736
50	1.08	5.12	11.6	21.7	36.0	51.1	65.8	81.6	90.7	104	132	197	294	341	391	432	432	401	350
60	1.08	4.50	9.38	16.7	25.2	36.2	49.1	60.1	66.1	73.7	79.7	81.6	85.9	86.5	86.8	88.4	87.9	82.9	75.0
70	1.08	3.83	7.65	11.9	17.5	24.4	30.1	36.9	43.1	47.2	50.1	53.5	55.1	54.5	54.3	53.0	50.8	48.0	44.7
80	1.08	3.22	5.70	8.60	11.9	15.3	18.4	21.2	24.0	26.9	29.7	31.9	33.4	31.9	30.1	28.2	26.1	23.8	21.4
90	1.08	2.70	4.31	5.93	7.55	9.17	10.8	11.3	11.8	12.3	12.9	13.4	13.9	12.6	11.3	10.1	8.79	7.52	6.24
100	1.08	2.17	2.63	2.77	3.19	3.88	4.31	3.89	3.56	3.39	3.36	3.33	3.27	3.01	2.85	2.71	2.61	2.53	2.45
110	1.08	1.54	1.74	2.24	2.16	2.18	2.30	2.20	2.15	2.17	2.18	2.20	2.25	2.23	2.20	2.18	2.15	2.13	2.10
120	1.08	1.14	1.55	1.51	1.62	1.66	1.75	1.79	1.77	1.83	1.94	2.06	2.18	2.27	2.33	2.42	2.51	2.61	2.69
130	1.08	0.95	1.18	1.26	1.34	1.46	1.51	1.56	1.65	1.82	2.03	2.24	2.47	2.71	3.02	3.38	3.73	4.06	4.33
140	1.08	0.87	0.97	1.08	1.23	1.35	1.48	1.62	1.84	2.17	2.59	3.02	3.47	3.83	4.25	4.92	5.58	6.18	6.67
150	1.08	0.76	0.84	0.99	1.17	1.35	1.58	1.89	2.31	2.82	3.39	4.00	4.66	5.34	5.99	6.67	7.68	8.61	9.37
160	1.08	0.64	0.74	0.91	1.13	1.40	1.77	2.22	2.82	3.51	4.23	5.02	5.88	6.85	7.84	8.79	9.77	11.1	12.3
170	1.08	0.52	0.64	0.84	1.10	1.45	1.91	2.49	3.21	4.02	4.92	5.93	7.03	8.20	9.38	10.6	11.8	13.0	14.7
180	1.08	0.41	0.53	0.75	1.05	1.46	1.99	2.62	3.40	4.29	5.28	6.41	7.63	8.89	10.2	11.5	12.8	14.0	15.2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.886m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	15.2	15.0	14.5	13.7	12.7	11.6	10.4	9.06	7.64	6.17	4.76	3.47	2.43	1.63	1.07	0.69	0.46	1.43	
-170	15.1	15.3	15.0	14.2	13.1	11.9	10.6	9.14	7.64	6.16	4.72	3.45	2.41	1.64	1.12	0.75	0.51	1.43	
-160	13.1	13.5	13.4	12.9	12.1	11.3	9.99	8.56	7.13	5.70	4.36	3.19	2.25	1.58	1.13	0.80	0.55	1.43	
-150	10.1	10.6	10.8	10.5	9.92	9.20	8.35	7.37	6.13	4.86	3.72	2.75	2.00	1.49	1.09	0.82	0.60	1.43	
-140	7.08	7.47	7.70	7.75	7.37	6.83	6.20	5.45	4.66	3.79	2.94	2.24	1.74	1.38	1.08	0.81	0.65	1.43	
-130	4.58	4.84	4.98	5.00	4.85	4.55	4.16	3.71	3.21	2.68	2.20	1.83	1.56	1.30	1.07	0.86	0.70	1.43	
-120	3.06	3.15	3.19	3.18	3.13	2.98	2.76	2.51	2.25	2.00	1.81	1.66	1.46	1.26	1.08	0.92	0.77	1.43	
-110	2.31	2.32	2.32	2.29	2.24	2.18	2.09	2.00	1.91	1.83	1.74	1.63	1.48	1.37	1.21	1.02	0.91	1.43	
-100	2.55	2.49	2.44	2.39	2.34	2.30	2.22	2.15	2.10	2.07	2.06	2.04	1.85	1.62	1.41	1.25	1.22	1.43	
-90	3.59	3.40	3.22	3.04	2.86	2.68	2.88	3.09	3.30	3.50	3.71	3.91	3.50	3.08	2.67	2.26	1.84	1.43	
-80	15.4	14.5	13.6	12.7	11.9	11.3	10.9	10.0	8.81	7.91	7.16	6.54	5.93	5.32	4.63	3.80	2.84	1.43	
-70	45.5	44.5	43.1	41.2	38.6	36.6	33.2	28.1	23.7	20.5	18.3	15.6	10.9	7.59	5.85	4.59	3.37	1.43	
-60	75.2	73.6	71.2	69.7	64.5	60.1	54.8	48.6	43.9	38.2	31.0	24.2	19.6	14.3	8.49	5.49	3.75	1.43	
-50	141	130	118	106	97.3	93.8	87.4	75.4	64.7	54.2	45.6	37.1	27.5	20.0	13.0	6.89	4.09	1.43	
-40	523	463	396	320	275	198	154	119	96.0	76.5	59.2	46.9	37.0	25.4	16.8	8.58	4.40	1.43	
-30	919	821	705	603	503	412	330	237	153	102	74.5	55.9	43.1	31.6	19.8	10.3	4.70	1.43	
-20	1304	1124	978	844	724	595	460	346	234	143	88.7	63.4	47.6	35.8	22.4	11.7	4.93	1.43	
-10	1538	1362	1192	1023	845	685	534	399	285	180	103	67.4	50.2	37.9	24.1	12.5	5.06	1.43	
0	1694	1487	1292	1091	875	689	538	402	290	191	110	67.1	50.5	38.1	24.7	12.6	5.08	1.43	
10	1451	1366	1229	1017	821	657	522	395	283	184	105	66.7	49.8	37.2	24.0	12.3	5.08	1.43	
20	1388	1215	1050	855	695	569	447	338	237	152	90.0	61.7	46.7	34.7	22.2	11.5	4.97	1.43	
30	1024	904	767	666	570	469	356	248	167	107	72.1	54.0	41.2	30.6	19.6	10.3	4.74	1.43	
40	691	632	558	505	423	342	242	157	105	73.0	56.1	44.3	34.4	25.1	16.2	8.75	4.43	1.43	
50	344	323	287	241	208	163	116	86.2	66.3	52.6	41.5	33.6	26.4	19.3	12.4	7.17	4.07	1.43	
60	81.1	85.4	86.9	85.3	82.4	70.6	62.6	53.1	43.4	36.0	28.7	23.7	18.5	13.2	8.89	5.69	3.67	1.43	
70	45.5	46.1	46.4	46.1	44.5	40.9	36.8	31.9	27.3	22.8	18.3	13.7	11.0	8.29	6.18	4.58	3.26	1.43	
80	22.3	22.9	23.3	23.4	23.0	22.5	19.8	17.0	14.3	11.7	9.32	7.20	6.28	5.30	4.38	3.57	2.79	1.43	
90	6.44	6.64	6.84	7.04	7.24	7.43	6.88	6.33	5.78	5.23	4.67	4.12	3.67	3.22	2.77	2.33	1.88	1.43	
100	2.63	2.81	2.99	3.17	3.36	3.52	3.25	2.99	2.73	2.46	2.21	1.98	1.89	1.79	1.66	1.48	1.31	1.43	
110	2.30	2.49	2.69	2.89	3.09	3.14	2.88	2.61	2.34	2.08	1.83	1.60	1.47	1.32	1.18	1.10	1.02	1.43	
120	2.88	3.05	3.18	3.27	3.33	3.24	3.04	2.78	2.51	2.16	1.78	1.57	1.42	1.25	1.07	0.91	0.85	1.43	
130	4.60	4.78	4.87	4.89	4.82	4.56	4.21	3.80	3.32	2.81	2.26	1.81	1.49	1.26	1.06	0.84	0.74	1.43	
140	7.04	7.29	7.42	7.42	7.11	6.65	6.06	5.40	4.66	3.84	3.00	2.30	1.72	1.34	1.06	0.81	0.66	1.43	
150	9.72	9.87	9.87	9.77	9.49	8.99	8.23	7.29	6.06	4.84	3.75	2.80	2.03	1.46	1.08	0.82	0.60	1.43	
160	12.4	12.4	12.5	12.4	11.9	11.3	9.95	8.52	7.09	5.66	4.36	3.21	2.28	1.57	1.12	0.80	0.55	1.43	
170	14.1	14.5	14.7	14.2	13.1	11.9	10.6	9.11	7.61	6.13	4.72	3.46	2.43	1.64	1.11	0.75	0.50	1.43	
180	15.2	15.0	14.5	13.7	12.7	11.6	10.4	9.06	7.64	6.17	4.76	3.47	2.43	1.63	1.07	0.69	0.46	1.43	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.886m [K=1.0000]
Remarks: