

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	911.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-19.0 degrees horizontal

Beam Spread	At 10% of I _{max}	103.2V x 102.4H
	At 50% of I _{max}	67.1V x 54.4H
	At 90% of I _{max}	24.1V x 19.4H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of I _{max}	895.3 lumens per klm.
	To 50% of I _{max}	485.0 lumens per klm.
	To 90% of I _{max}	110.6 lumens per klm.

Upward LOR	1.2 %
Downward LOR	98.8 %

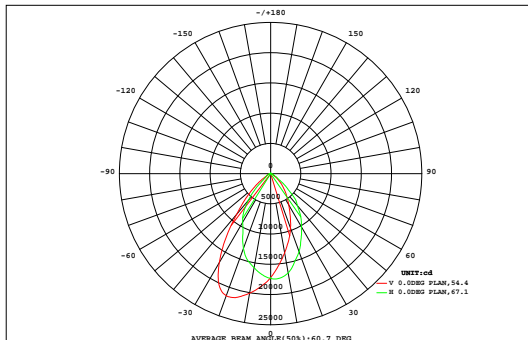
Luminaire Efficiency(Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-01-18

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:88.400V I:1.6500A P:145.86W PF:1.0000 Freq:0Hz Lamp Flux:23611.4x1 lm		
NAME: C165-C216N-R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.9*0.08	Shielding Angle:



DATA OF LAMP		Eff:161.88lm/W	
MODEL	C165-C216N-R	Imax(cd)	21519
NOMINAL POWER(W)	145.86	AVAILABILITY(%)	89.5
RATED VOLTAGE(V)	88.4	Avai. FLUX(lm)	21129
NOMINAL FLUX(lm)	23611.4	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	23611
TEST VOLTAGE(V)	88.4	θ @50%(H,V)	54,67DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.08	0.50	1.32	2.48	3.85	5.30	6.16	6.20	5.92	5.63	5.36	4.85	3.83	2.56	1.50	0.78	0.33	0.07	56.7	0.00
90	0.11	0.75	2.32	4.72	7.13	9.68	11.4	11.8	11.4	11.1	10.9	9.89	7.69	5.04	2.83	1.31	0.47	0.08	109	0.00
80	0.13	1.10	3.59	7.21	11.5	15.4	18.5	20.5	20.5	20.3	20.1	18.2	13.3	8.43	4.68	2.16	0.68	0.10	187	0.00
70	0.16	1.51	4.94	10.7	17.0	25.8	37.7	50.6	56.1	54.8	48.5	36.6	21.8	12.5	6.67	3.10	0.95	0.12	389	89.4
60	0.19	1.88	6.59	13.9	28.1	62.2	115	153	163	150	122	84.7	43.4	18.4	8.77	4.03	1.21	0.14	977	841
50	0.21	2.28	7.91	18.0	57.0	128	210	267	275	242	190	131	73.2	29.7	11.2	4.86	1.46	0.16	1650	1558
40	0.23	2.62	8.74	25.5	88.7	196	337	411	398	331	248	164	95.3	43.8	14.3	5.51	1.66	0.17	2371	2297
30	0.24	2.85	9.16	33.5	114	271	472	549	510	413	300	189	112	54.5	17.6	5.92	1.79	0.18	3055	2990
20	0.24	2.94	9.21	37.3	128	315	535	611	568	463	334	211	120	58.4	19.2	6.04	1.83	0.18	3421	3361
10	0.23	2.93	9.16	36.1	126	304	519	599	554	448	330	216	123	59.0	19.2	6.08	1.83	0.18	3352	3290
0	0.23	2.81	9.05	30.5	107	246	419	508	482	400	299	203	118	55.9	17.7	6.02	1.79	0.18	2906	2842
-10	0.22	2.55	8.60	22.4	77.6	175	281	341	354	309	240	170	98.4	45.3	14.5	5.64	1.67	0.17	2148	2072
-20	0.20	2.17	7.73	16.4	44.6	103	172	217	236	220	176	119	66.3	29.1	11.7	4.98	1.46	0.16	1428	1325
-30	0.17	1.75	6.34	13.4	23.3	43.2	74.0	102	112	104	84.3	56.2	31.9	17.6	9.23	4.13	1.21	0.14	686	464
-40	0.14	1.34	4.59	10.2	16.1	21.8	26.7	32.0	33.6	32.4	30.0	24.9	18.6	12.1	6.86	3.13	0.95	0.11	275	0.00
-50	0.11	0.95	3.11	6.55	10.8	14.7	17.5	18.9	18.9	18.6	17.7	15.4	11.8	7.96	4.63	2.16	0.68	0.10	171	0.00
-60	0.09	0.61	1.91	3.86	6.11	8.61	10.3	10.7	10.4	9.97	9.49	8.42	6.57	4.42	2.65	1.28	0.44	0.08	95.9	0.00
-70	0.07	0.35	0.91	1.74	2.62	3.52	4.22	4.56	4.63	4.42	3.97	3.39	2.71	2.00	1.31	0.75	0.33	0.07	41.6	0.00
-80	0.07	0.35	0.91	1.74	2.62	3.52	4.22	4.56	4.63	4.42	3.97	3.39	2.71	2.00	1.31	0.75	0.33	0.07	41.6	0.00
-90	0.07	0.35	0.91	1.74	2.62	3.52	4.22	4.56	4.63	4.42	3.97	3.39	2.71	2.00	1.31	0.75	0.33	0.07	41.6	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	3.06	31.9	105	294	869	1949	3266	3914	3813	3238	2471	1666	967	467	174	67.9	20.7	2.38	23319	---
Φ a	0.00	0.00	0.00	85.4	708	1798	3120	3771	3668	3094	2323	1515	805	243	0.00	0.00	0.00	0.00	---	21129

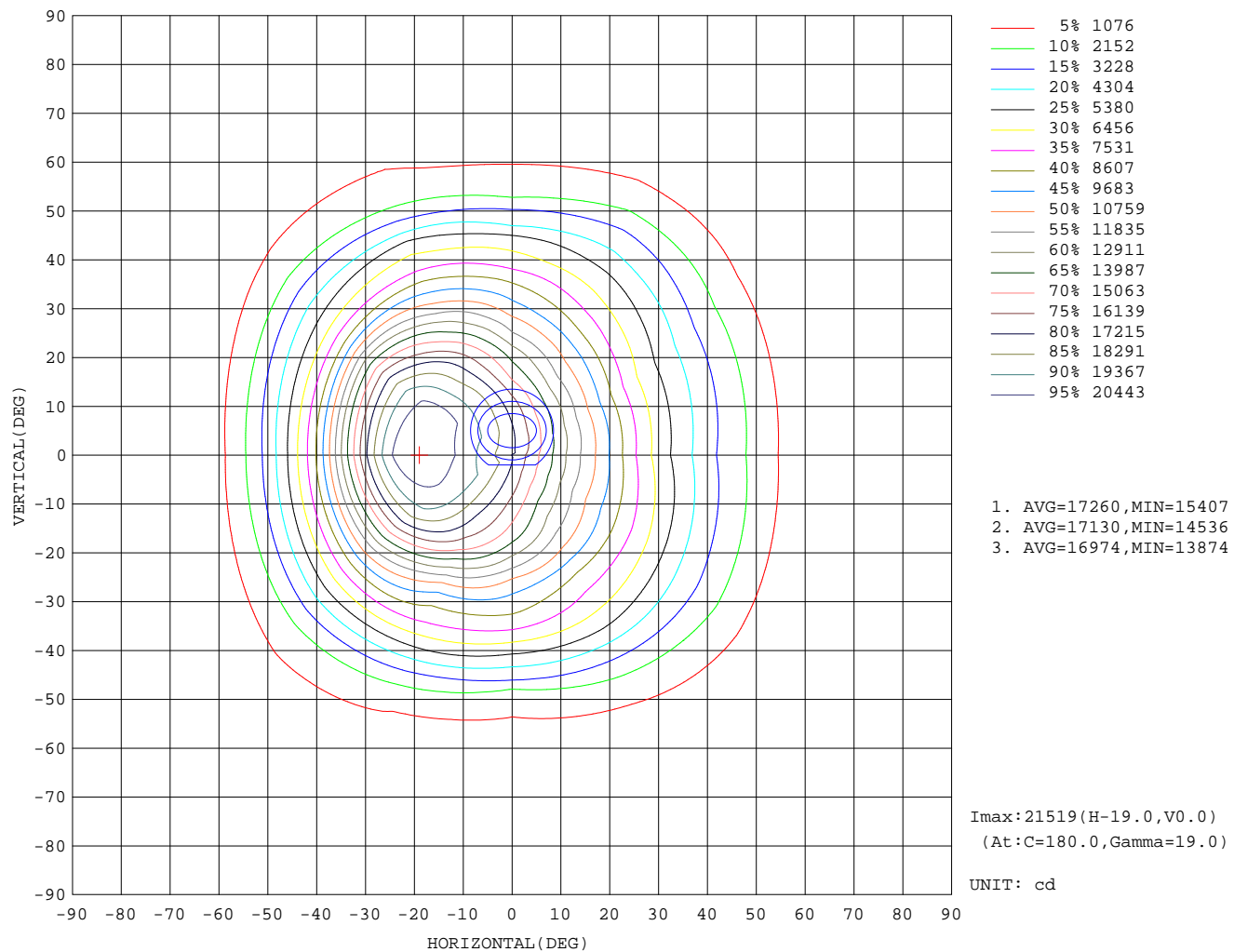
one-half-peak spread: U:34.5,D:33.2 , L:18.5,R:36.3

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:

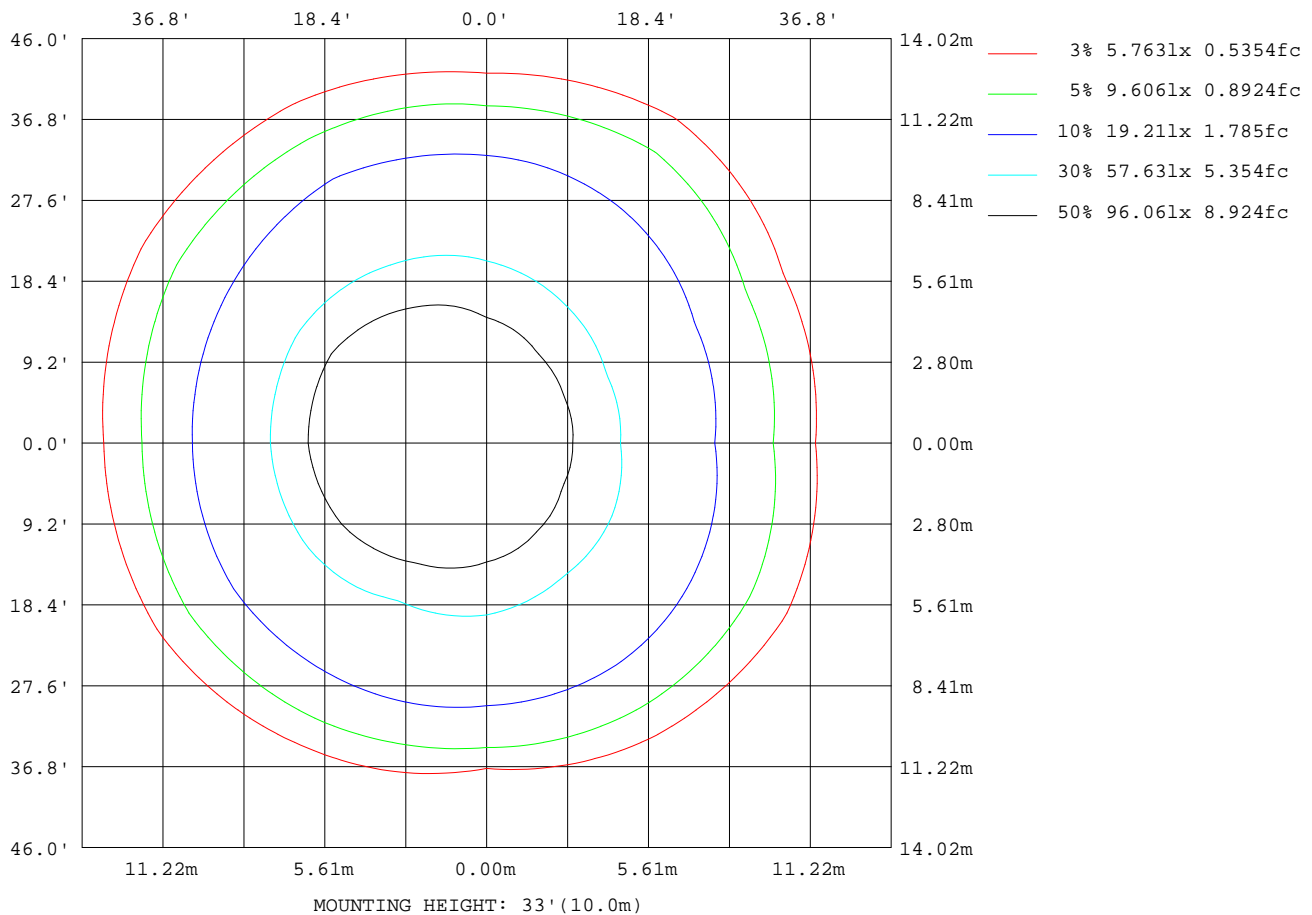
ISOCANDELA DIAGRAM



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

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Humidity: 65.0%
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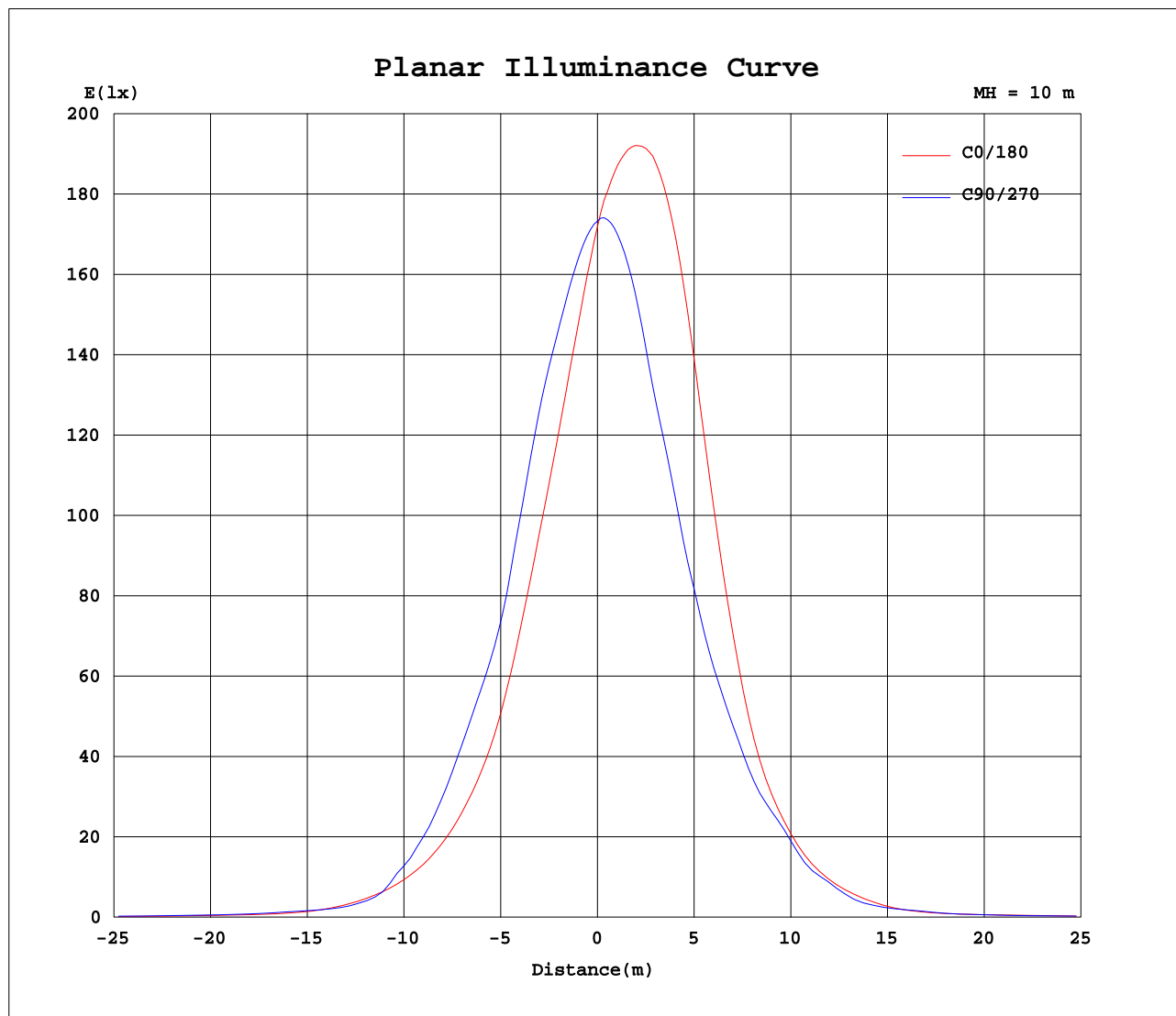
ISOLUX DIAGRAM



C Range: 0 - 360DEG
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Test Speed: HIGH
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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:

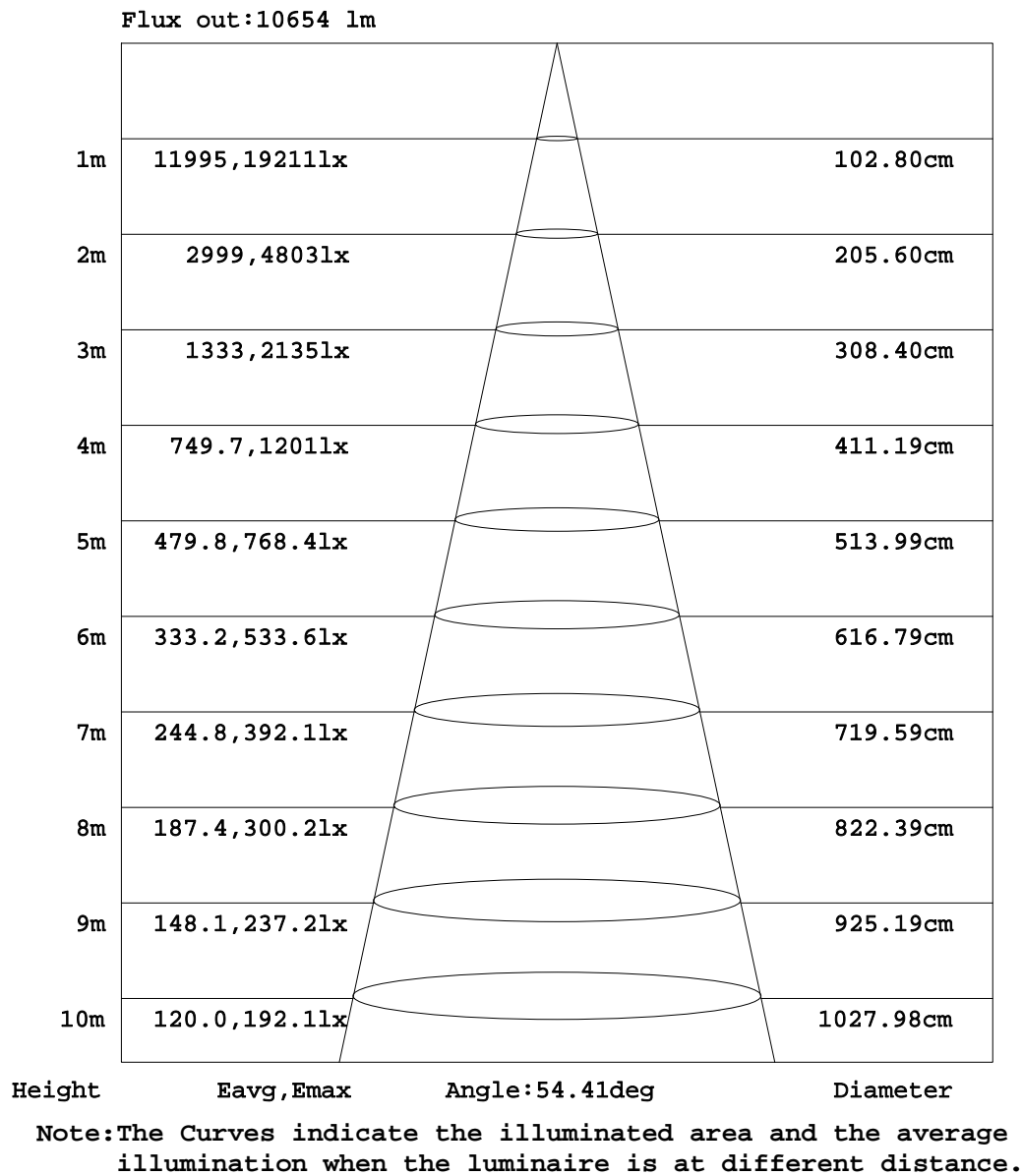
Planar Illuminance Curve



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: ×10cd

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	0.34	0.45	0.65	0.92	1.28	1.75	2.33	3.02	3.82	4.70	5.69	6.76	7.88	9.04	10.2	11.4	12.5	13.6
-170	1.08	0.42	0.51	0.68	0.90	1.23	1.67	2.20	2.83	3.54	4.33	5.22	6.15	7.11	8.09	9.15	10.4	11.7	12.8
-160	1.08	0.50	0.57	0.70	0.86	1.13	1.50	1.95	2.47	3.06	3.69	4.38	5.13	6.07	7.08	8.12	9.12	10.0	10.8
-150	1.08	0.61	0.63	0.74	0.83	0.99	1.27	1.61	2.01	2.45	2.94	3.56	4.25	4.97	5.70	6.42	7.10	7.69	8.12
-140	1.08	0.73	0.72	0.80	0.84	0.89	1.03	1.27	1.53	1.90	2.31	2.76	3.24	3.72	4.21	4.66	5.08	5.42	5.66
-130	1.08	0.88	0.84	0.89	0.93	0.92	0.91	0.96	1.21	1.53	1.82	2.10	2.37	2.62	2.91	3.20	3.44	3.65	3.80
-120	1.08	1.06	1.05	1.08	1.10	1.12	1.08	1.05	1.17	1.37	1.61	1.84	2.04	2.19	2.29	2.40	2.52	2.63	2.72
-110	1.08	1.28	1.44	1.48	1.50	1.51	1.51	1.59	1.70	1.79	1.90	2.03	2.18	2.23	2.25	2.27	2.29	2.31	2.34
-100	1.08	1.54	1.94	2.26	2.53	2.71	2.76	2.76	2.98	3.32	3.20	3.09	3.24	3.16	3.11	3.07	3.05	3.04	3.03
-90	1.08	1.85	2.61	3.37	4.14	4.90	5.67	6.01	6.35	6.69	7.04	7.38	7.72	7.62	7.52	7.41	7.31	7.21	7.10
-80	1.08	2.39	3.76	5.43	7.63	10.3	13.2	14.6	16.0	17.6	19.8	21.8	24.4	25.0	24.7	24.5	24.1	23.5	22.5
-70	1.08	2.92	5.48	9.25	13.3	20.0	23.8	29.0	33.0	38.0	42.1	46.4	48.7	49.2	50.4	50.4	49.8	48.8	47.5
-60	1.08	3.49	7.65	13.5	20.5	28.2	37.1	48.7	56.0	62.6	67.6	72.7	76.4	78.7	78.2	78.5	79.2	78.9	77.5
-50	1.08	4.09	9.63	18.3	28.4	41.8	55.6	67.9	78.7	87.6	95.3	107	120	127	157	176	180	173	156
-40	1.08	4.67	12.0	23.1	37.5	55.1	69.0	83.2	101	136	193	272	357	436	506	557	581	588	572
-30	1.08	5.14	14.0	27.4	46.5	64.0	77.7	98.6	161	275	415	556	696	815	881	899	945	954	928
-20	1.08	5.43	15.3	31.2	52.7	68.0	84.0	135	260	423	621	838	1078	1273	1411	1478	1472	1425	1316
-10	1.08	5.51	15.9	33.6	56.1	69.2	89.6	179	334	538	786	1114	1460	1755	1934	1963	1864	1729	1580
0	1.08	5.37	15.8	34.1	56.7	68.0	90.2	199	364	589	871	1287	1701	2024	2148	2115	2007	1875	1719
10	1.08	5.60	16.3	34.0	56.4	69.7	92.3	191	355	556	813	1195	1588	1884	2041	2048	1955	1842	1667
20	1.08	5.61	15.9	31.9	53.6	69.1	86.1	153	299	465	662	921	1268	1512	1635	1679	1639	1528	1375
30	1.08	5.41	14.7	28.3	47.4	64.7	78.9	109	198	341	485	633	794	968	1086	1135	1152	1108	1020
40	1.08	5.05	12.9	24.5	39.6	57.1	70.7	84.9	115	178	272	375	496	609	672	707	727	719	688
50	1.08	4.63	10.7	20.6	30.3	44.2	58.5	69.5	82.4	93.6	116	136	171	239	288	313	335	342	335
60	1.08	4.14	8.56	15.5	24.4	31.6	41.0	51.3	59.4	64.9	70.4	76.2	80.3	91.7	100	100	101	101	100
70	1.08	3.58	6.73	10.7	16.2	23.2	30.0	33.2	36.6	41.7	46.8	50.3	51.7	52.1	53.1	52.8	51.7	50.2	48.3
80	1.08	2.92	5.16	7.65	10.3	13.0	16.3	19.3	22.2	24.6	26.7	28.5	30.3	30.0	29.4	28.4	27.2	25.7	24.1
90	1.08	2.19	3.29	4.39	5.50	6.60	7.70	8.97	10.2	11.5	12.8	14.0	15.3	14.6	13.9	13.2	12.5	11.8	11.1
100	1.08	1.71	2.33	3.07	3.70	3.98	4.02	3.86	4.01	4.06	4.37	4.82	5.53	5.79	5.62	5.42	5.21	5.04	4.91
110	1.08	1.47	2.00	2.05	2.04	2.23	2.33	2.38	2.36	2.37	2.43	2.52	2.60	2.57	2.52	2.48	2.46	2.44	2.41
120	1.08	1.29	1.42	1.48	1.61	1.65	1.73	1.71	1.75	1.89	2.07	2.24	2.29	2.28	2.31	2.40	2.49	2.56	2.61
130	1.08	1.11	1.04	1.23	1.30	1.38	1.40	1.48	1.63	1.82	2.02	2.30	2.57	2.81	3.10	3.36	3.59	3.79	3.95
140	1.08	0.91	0.92	1.03	1.16	1.23	1.38	1.58	1.79	2.17	2.60	3.05	3.45	3.89	4.32	4.81	5.27	5.66	5.95
150	1.08	0.73	0.79	0.92	1.05	1.23	1.48	1.78	2.24	2.74	3.30	3.92	4.58	5.23	5.87	6.52	7.25	7.87	8.32
160	1.08	0.58	0.67	0.83	1.01	1.27	1.61	2.07	2.64	3.29	4.01	4.80	5.64	6.56	7.51	8.42	9.29	10.2	10.9
170	1.08	0.45	0.56	0.74	0.97	1.29	1.72	2.27	2.93	3.68	4.52	5.46	6.48	7.57	8.70	9.83	10.9	11.9	13.0
180	1.08	0.34	0.45	0.65	0.92	1.28	1.75	2.33	3.02	3.82	4.70	5.69	6.76	7.88	9.04	10.2	11.4	12.5	13.6

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: ×10cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	13.6	13.5	13.1	12.4	11.4	10.4	9.33	8.11	6.81	5.48	4.20	3.07	2.13	1.41	0.91	0.58	0.39	1.32	
-170	13.2	13.3	13.1	12.4	11.4	10.4	9.21	7.96	6.65	5.34	4.08	2.98	2.08	1.43	0.97	0.66	0.46	1.32	
-160	11.2	11.4	11.3	10.9	10.3	9.55	8.46	7.27	6.04	4.82	3.69	2.70	1.93	1.39	1.00	0.73	0.52	1.32	
-150	8.58	8.84	8.88	8.62	8.18	7.61	6.90	6.07	5.03	4.01	3.07	2.29	1.73	1.33	1.02	0.80	0.59	1.32	
-140	6.01	6.22	6.28	6.19	5.89	5.50	4.98	4.41	3.75	3.04	2.38	1.90	1.56	1.29	1.05	0.88	0.66	1.32	
-130	3.97	4.07	4.08	4.03	3.90	3.68	3.38	3.02	2.61	2.22	1.89	1.68	1.49	1.29	1.14	0.97	0.77	1.32	
-120	2.78	2.81	2.81	2.79	2.75	2.62	2.44	2.23	2.03	1.89	1.79	1.66	1.52	1.41	1.30	1.06	0.93	1.32	
-110	2.34	2.35	2.36	2.35	2.35	2.33	2.27	2.20	2.14	2.06	1.97	1.93	1.87	1.73	1.47	1.22	1.19	1.32	
-100	3.01	2.99	2.98	2.97	2.96	2.95	2.84	2.78	2.74	2.90	2.85	2.66	2.34	2.09	1.91	1.75	1.56	1.32	
-90	6.78	6.45	6.13	5.81	5.48	5.16	5.22	5.29	5.35	5.41	5.48	5.54	4.84	4.13	3.43	2.73	2.02	1.32	
-80	22.1	21.3	20.2	18.9	17.6	16.2	14.5	13.5	12.5	11.3	9.70	7.74	6.61	5.59	4.63	3.61	2.47	1.32	
-70	47.3	46.6	45.4	43.6	41.8	38.9	35.6	32.4	29.2	24.4	20.2	16.7	13.5	9.60	6.22	4.37	2.88	1.32	
-60	79.0	79.2	78.1	74.8	70.7	65.3	59.0	53.1	45.8	39.1	32.5	26.2	19.8	14.5	9.82	5.50	3.24	1.32	
-50	160	156	146	131	116	102	90.0	80.5	66.6	55.6	45.1	36.4	27.7	19.5	12.9	7.28	3.58	1.32	
-40	547	504	449	383	314	251	183	134	97.0	76.0	58.9	45.4	35.0	25.0	15.8	8.88	3.93	1.32	
-30	872	801	722	637	536	430	336	253	170	103	71.5	54.0	40.3	29.5	18.5	10.1	4.26	1.32	
-20	1201	1059	926	801	684	561	436	331	237	148	83.8	59.7	44.4	32.4	20.6	10.9	4.50	1.32	
-10	1402	1243	1073	925	771	623	489	369	269	177	97.4	61.9	46.1	33.6	21.7	11.3	4.61	1.32	
0	1523	1330	1148	962	767	603	475	362	265	179	99.9	60.0	45.4	33.4	21.7	11.2	4.59	1.32	
10	1475	1285	1091	906	729	586	469	361	264	175	97.5	61.0	45.6	33.4	21.7	11.3	4.65	1.32	
20	1243	1089	944	782	638	514	417	319	229	147	83.6	57.6	43.7	32.0	20.6	10.9	4.57	1.32	
30	943	850	744	641	543	443	339	245	167	103	68.6	51.7	39.6	29.1	18.6	10.0	4.36	1.32	
40	653	606	546	473	398	321	233	158	102	71.3	55.2	44.2	34.1	24.8	15.8	8.77	4.05	1.32	
50	327	306	275	240	207	161	114	85.4	67.4	54.3	43.5	35.1	27.3	19.7	12.9	7.32	3.69	1.32	
60	99.9	96.9	92.9	89.3	87.8	79.1	68.6	56.9	46.9	39.7	31.9	26.0	19.9	14.6	9.62	5.86	3.30	1.32	
70	49.5	50.4	51.3	51.4	49.7	45.2	40.9	35.8	30.6	25.6	21.0	16.8	13.0	9.54	6.78	4.67	2.88	1.32	
80	24.7	25.1	25.3	25.4	25.2	24.5	21.7	19.2	16.7	14.2	11.5	8.98	7.60	6.21	4.86	3.60	2.42	1.32	
90	10.9	10.6	10.4	10.2	10.0	9.79	9.03	8.27	7.51	6.75	5.99	5.23	4.58	3.92	3.27	2.62	1.97	1.32	
100	4.74	4.63	4.54	4.45	4.33	4.19	3.98	3.63	3.25	2.90	2.72	2.59	2.47	2.33	2.14	1.88	1.58	1.32	
110	2.39	2.35	2.31	2.26	2.23	2.21	2.12	2.03	1.94	1.85	1.76	1.66	1.61	1.51	1.42	1.33	1.25	1.32	
120	2.63	2.63	2.60	2.55	2.49	2.42	2.33	2.19	1.96	1.70	1.47	1.36	1.30	1.24	1.14	1.03	1.00	1.32	
130	4.04	4.05	3.98	3.85	3.72	3.57	3.35	3.07	2.72	2.32	1.88	1.51	1.26	1.13	1.02	0.89	0.82	1.32	
140	6.17	6.25	6.19	6.01	5.82	5.52	5.10	4.60	3.99	3.30	2.56	1.93	1.45	1.14	0.96	0.80	0.69	1.32	
150	8.68	8.83	8.77	8.59	8.27	7.80	7.19	6.43	5.34	4.23	3.25	2.40	1.72	1.23	0.94	0.74	0.60	1.32	
160	11.3	11.4	11.4	11.1	10.6	9.99	8.84	7.57	6.28	5.00	3.82	2.79	1.96	1.34	0.94	0.69	0.52	1.32	
170	13.2	13.3	13.3	12.7	11.8	10.6	9.42	8.12	6.78	5.43	4.15	3.03	2.11	1.41	0.94	0.64	0.46	1.32	
180	13.6	13.5	13.1	12.4	11.4	10.4	9.33	8.11	6.81	5.48	4.20	3.07	2.13	1.41	0.91	0.58	0.39	1.32	

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: