

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	349.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	157.5V x 160.1H
	At 50% of Imax	110.1V x 110.4H
	At 90% of Imax	45.1V x 45.6H

Beam Flux	Total	962.5 lumens per klm.
	To 10% of Imax	949.0 lumens per klm.
	To 50% of Imax	694.4 lumens per klm.
	To 90% of Imax	158.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	96.3 %

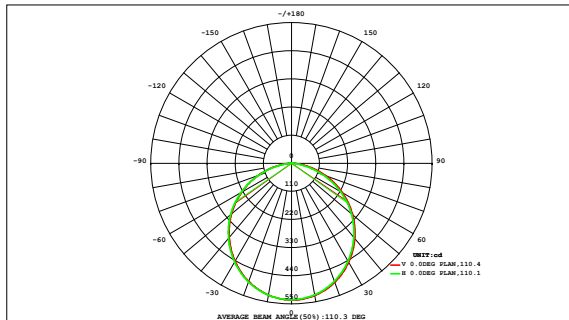
Luminaire Efficiency (Light Output Ratio)	96.2 %
---	--------

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 03 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	99LED962	Imax (cd)	534.7
NOMINAL POWER(W)	18	AVAILABILITY (%)	94.8
RATED VOLTAGE (V)	230	Avai. FLUX(lm)	1451
NOMINAL FLUX(lm)	1530	LOR (%)	96.2
LAMPS INSIDE	1	TOTAL FLUX(lm)	1472
TEST VOLTAGE (V)	230	θ @50% (H,V)	110,110DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.02	0.06	0.12	0.21	0.30	0.38	0.43	0.46	0.46	0.42	0.36	0.28	0.20	0.11	0.05	0.02	0.01	3.90	0.00
90	0.01	0.09	0.30	0.73	1.24	1.75	2.21	2.56	2.75	2.74	2.53	2.17	1.70	1.19	0.69	0.28	0.08	0.01	23.0	18.8
80	0.02	0.20	0.72	1.56	2.55	3.56	4.48	5.17	5.53	5.52	5.13	4.43	3.50	2.48	1.51	0.69	0.18	0.02	47.3	46.3
70	0.03	0.34	1.18	2.38	3.83	5.31	6.65	7.64	8.17	8.15	7.60	6.58	5.24	3.75	2.31	1.13	0.32	0.03	70.6	70.1
60	0.05	0.49	1.57	3.12	4.97	6.87	8.56	9.83	10.5	10.5	9.77	8.48	6.77	4.88	3.05	1.52	0.46	0.04	91.4	91.1
50	0.06	0.62	1.90	3.75	5.93	8.18	10.2	11.7	12.5	12.5	11.7	10.1	8.08	5.83	3.66	1.84	0.59	0.05	109	109
40	0.07	0.72	2.16	4.24	6.69	9.23	11.5	13.3	14.2	14.2	13.2	11.4	9.11	6.58	4.14	2.09	0.68	0.06	124	123
30	0.08	0.78	2.34	4.57	7.21	9.96	12.5	14.4	15.4	15.3	14.3	12.3	9.84	7.10	4.47	2.27	0.75	0.07	134	133
20	0.08	0.82	2.43	4.74	7.48	10.3	12.9	14.9	16.0	16.0	14.8	12.8	10.2	7.36	4.64	2.36	0.78	0.08	139	139
10	0.08	0.82	2.42	4.74	7.47	10.3	12.9	14.9	16.0	15.9	14.8	12.8	10.2	7.36	4.64	2.36	0.78	0.08	139	138
0	0.08	0.78	2.33	4.55	7.18	9.92	12.4	14.3	15.3	15.3	14.2	12.3	9.80	7.07	4.46	2.26	0.75	0.07	133	133
-10	0.07	0.72	2.15	4.21	6.65	9.17	11.4	13.2	14.1	14.1	13.1	11.3	9.05	6.53	4.11	2.08	0.68	0.07	123	122
-20	0.06	0.62	1.88	3.71	5.88	8.10	10.1	11.6	12.4	12.4	11.5	10.00	7.98	5.77	3.62	1.82	0.59	0.06	108	108
-30	0.05	0.50	1.54	3.07	4.89	6.76	8.43	9.68	10.3	10.3	9.62	8.34	6.66	4.79	2.99	1.48	0.48	0.05	90.0	89.7
-40	0.04	0.37	1.15	2.32	3.72	5.18	6.48	7.45	7.96	7.94	7.40	6.40	5.09	3.64	2.25	1.10	0.35	0.04	68.9	68.3
-50	0.03	0.24	0.73	1.49	2.43	3.41	4.28	4.94	5.28	5.27	4.90	4.22	3.34	2.36	1.44	0.69	0.22	0.02	45.3	44.2
-60	0.01	0.11	0.34	0.69	1.13	1.60	2.02	2.34	2.50	2.49	2.31	1.98	1.55	1.08	0.65	0.31	0.10	0.01	21.2	15.9
-70	0.01	0.02	0.05	0.10	0.16	0.23	0.29	0.34	0.36	0.36	0.33	0.28	0.22	0.15	0.09	0.05	0.02	0.01	3.08	0.00
-80	0.01	0.02	0.05	0.10	0.16	0.23	0.29	0.34	0.36	0.36	0.33	0.28	0.22	0.15	0.09	0.05	0.02	0.01	3.08	0.00
-90	0.01	0.02	0.05	0.10	0.16	0.23	0.29	0.34	0.36	0.36	0.33	0.28	0.22	0.15	0.09	0.05	0.02	0.01	3.08	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.84	8.25	25.2	50.1	79.6	110	138	159	170	169	158	136	109	78.1	48.8	24.4	7.85	0.78	1472	---
Φ a	0.00	6.76	24.0	48.9	78.4	109	137	157	168	168	157	135	107	76.9	47.6	23.1	6.29	0.00	---	1451

one-half-peak spread: U:55.0,D:55.8 , L:55.9,R:55.2

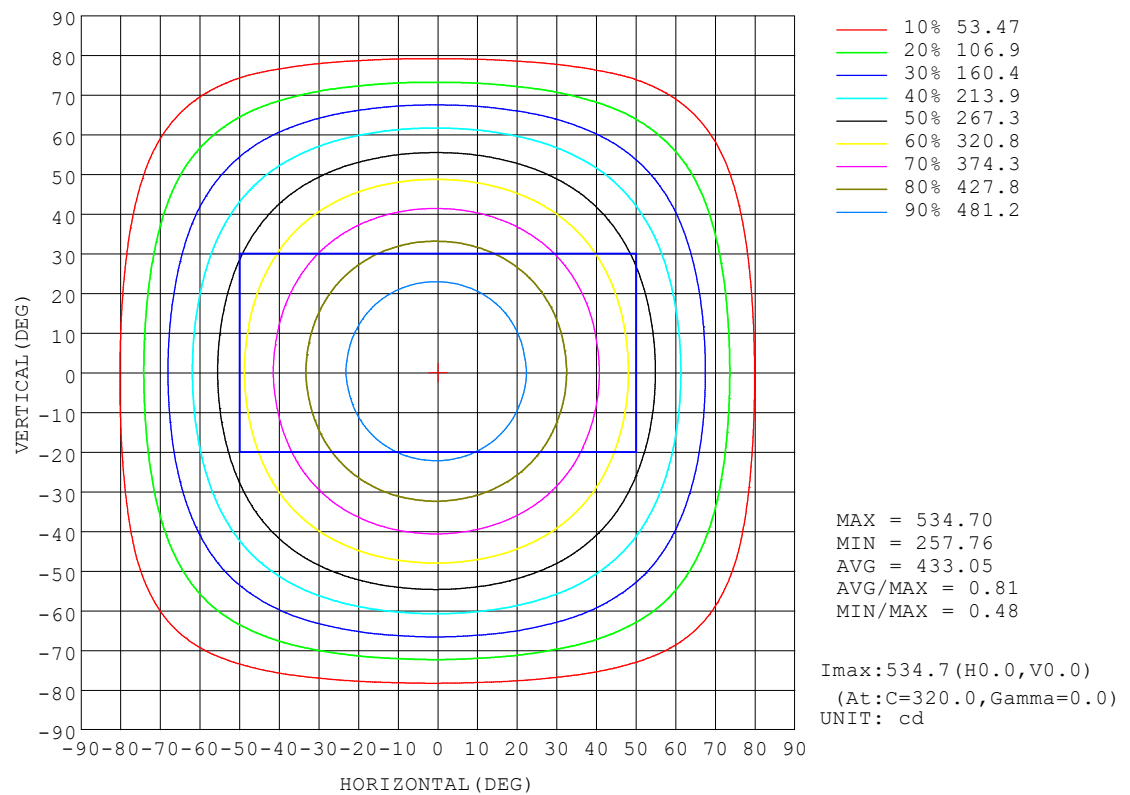
NEMA Beam Type: Type 7

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:03 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

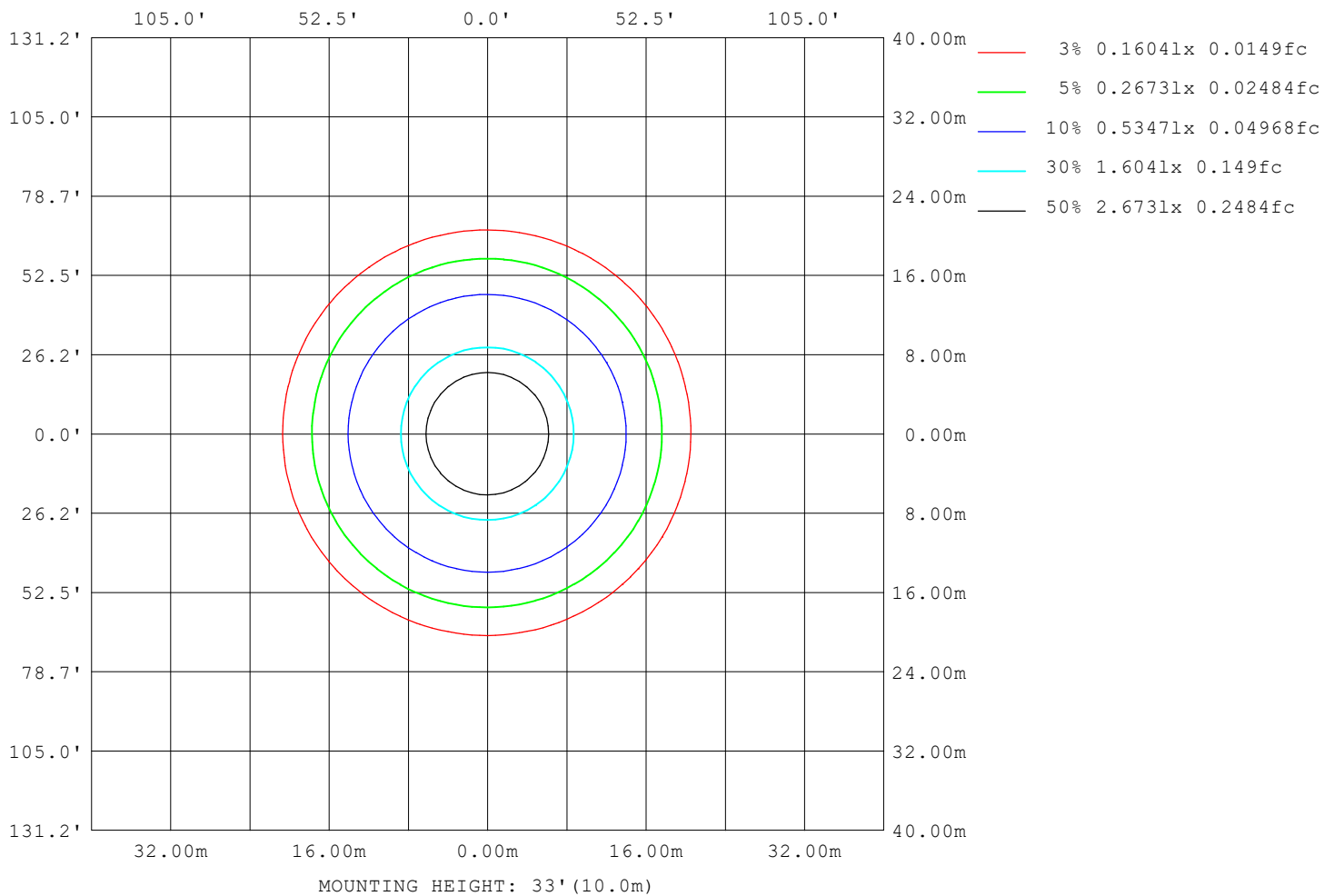


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:03 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

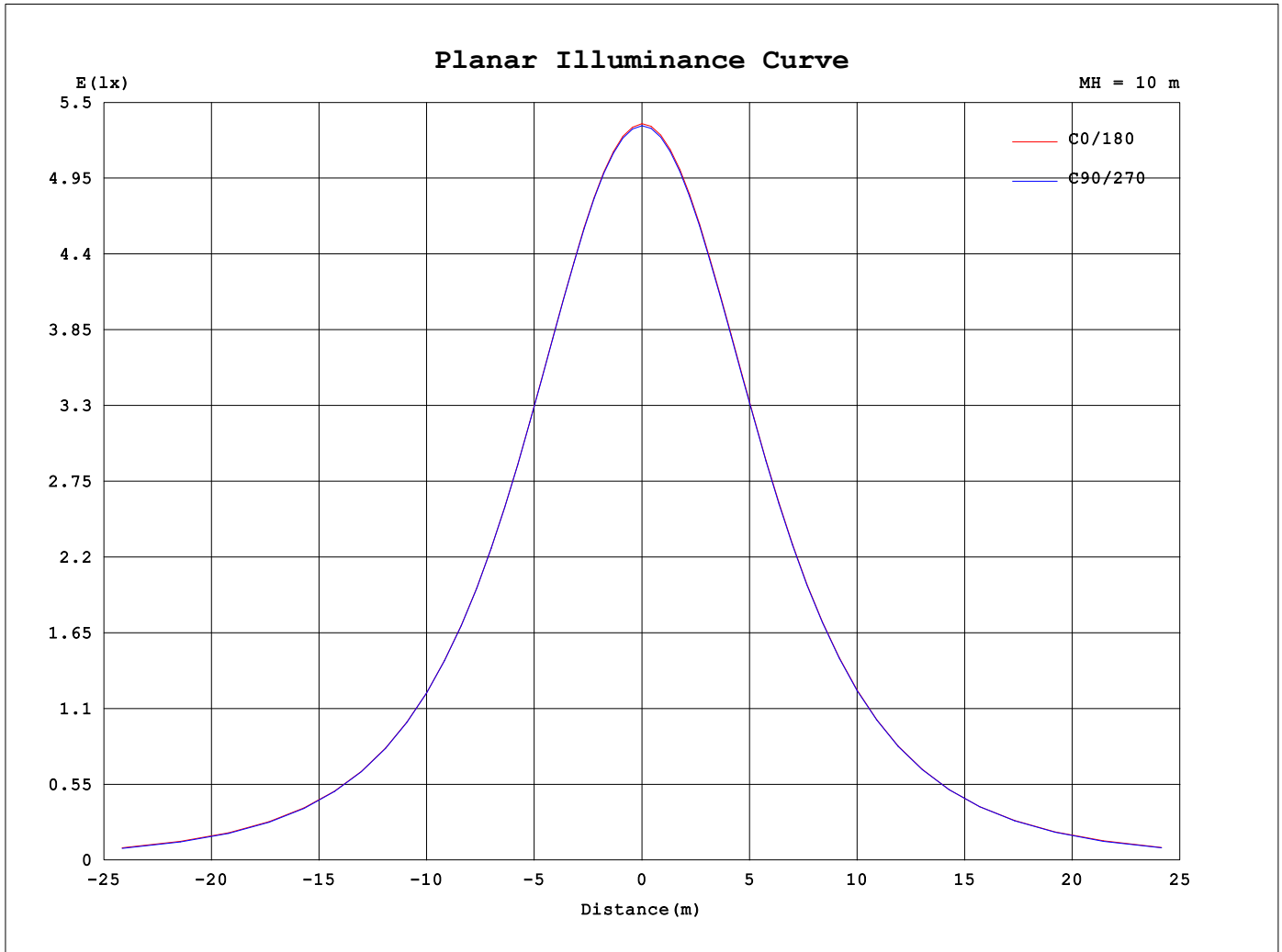
NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 03 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

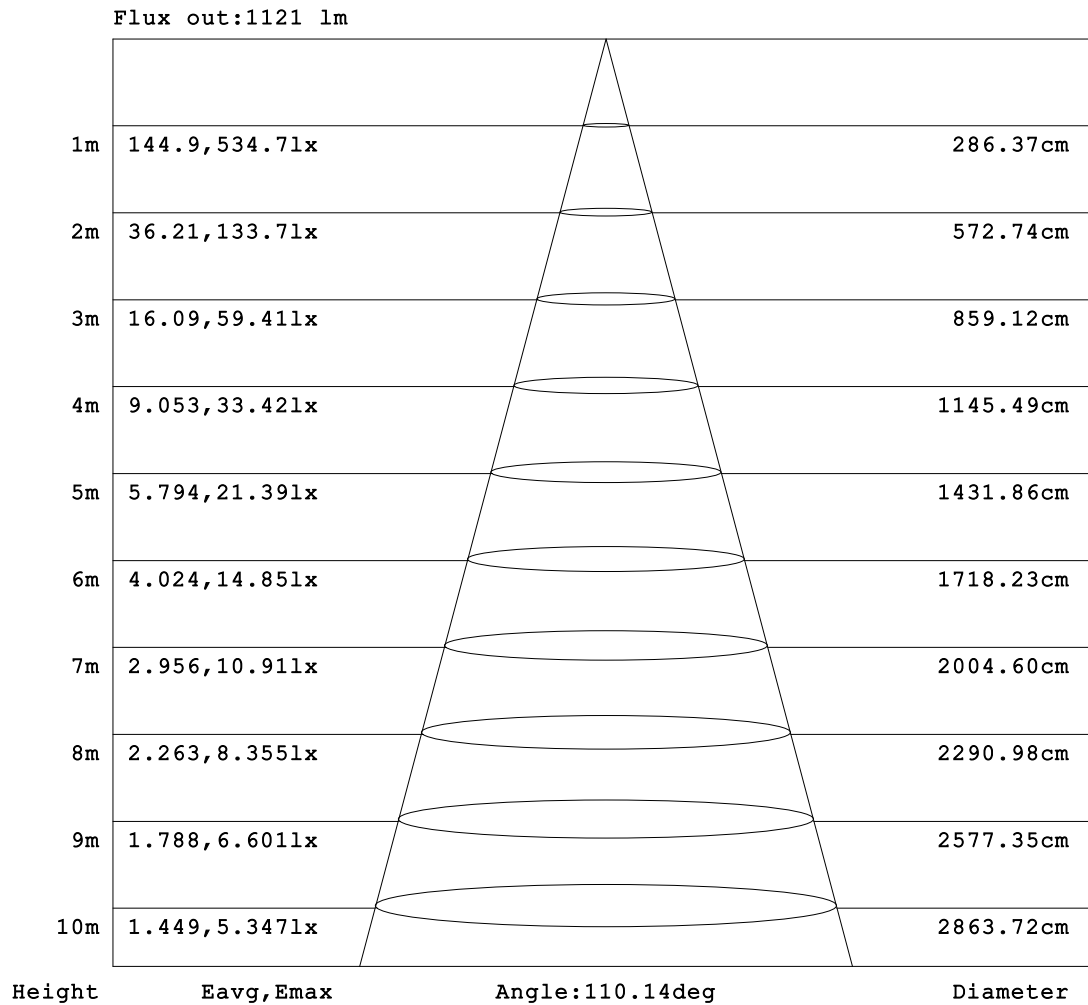


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 03 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

AAI Figure

NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding 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: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:03 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	1.08	1.03	0.98	0.92	0.85	0.85	0.84	0.83	0.82	0.80	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.76
-85	1.08	2.06	2.88	3.10	2.87	2.55	1.91	3.34	4.33	5.13	5.60	5.99	6.12	6.32	6.37	6.40	6.31	6.42	6.44
-80	1.08	3.10	4.77	5.62	9.07	12.4	15.2	18.6	21.8	24.9	27.7	30.5	32.8	34.9	36.6	37.8	38.5	39.2	39.3
-75	1.08	4.11	6.93	13.1	18.9	25.7	32.2	39.1	45.6	52.0	58.2	63.6	68.5	72.9	76.4	79.1	80.9	82.1	82.4
-70	1.08	5.12	11.8	20.4	30.3	40.5	50.9	61.6	71.8	81.8	91.2	99.8	107	114	119	124	126	128	129
-65	1.08	6.09	16.5	28.8	42.0	56.0	70.6	85.1	99.1	113	125	137	147	156	163	168	172	175	175
-60	1.08	7.04	20.9	36.8	53.8	71.9	90.5	109	127	143	159	173	186	196	205	212	217	220	221
-55	1.08	9.05	25.7	45.3	66.0	87.7	110	132	153	173	191	208	223	235	246	254	260	263	265
-50	1.08	10.9	30.1	53.3	77.6	103	129	154	179	201	222	241	258	272	284	294	300	304	306
-45	1.08	12.7	34.0	61.2	89.0	118	147	175	202	227	251	272	291	306	320	330	338	342	343
-40	1.08	14.3	37.8	68.6	99.5	132	164	194	224	251	277	300	320	338	353	364	372	377	379
-35	1.08	15.7	41.8	75.2	109	144	179	212	243	273	300	325	348	367	383	396	405	410	412
-30	1.08	16.9	45.3	81.4	118	155	192	227	261	292	322	348	372	393	411	424	434	440	442
-25	1.08	18.0	48.4	86.8	126	165	203	240	275	309	340	368	394	416	435	449	460	466	468
-20	1.08	18.8	50.9	91.3	132	173	213	251	288	323	355	385	412	435	455	471	482	489	491
-15	1.08	19.5	52.9	94.9	137	179	220	260	298	334	367	398	426	451	472	488	500	507	509
-10	1.08	19.9	54.4	97.6	141	184	226	266	305	342	376	408	437	462	484	501	513	520	522
-5	1.08	20.2	55.2	99.2	143	186	229	270	310	347	382	415	444	469	491	508	521	528	530
0	1.08	20.3	55.4	99.9	144	187	230	272	312	349	385	417	447	473	495	512	525	533	535
5	1.08	20.0	54.8	99.3	143	186	229	271	310	348	383	415	445	470	492	510	522	529	531
10	1.08	19.6	53.6	97.8	141	184	226	267	306	343	378	410	438	464	485	502	514	521	524
15	1.08	18.9	51.7	95.2	137	179	221	261	299	335	369	400	428	453	474	490	502	509	511
20	1.08	18.1	49.1	91.7	132	173	214	252	290	325	357	387	414	438	458	474	485	492	494
25	1.08	17.2	45.9	87.1	126	166	204	242	278	311	342	371	396	419	438	453	463	470	472
30	1.08	16.1	42.1	81.6	119	157	193	229	263	295	324	351	375	396	414	428	438	444	446
35	1.08	14.8	37.6	74.9	111	146	181	214	246	276	303	329	351	371	387	400	409	415	416
40	1.08	13.5	32.6	66.8	101	134	166	197	227	254	280	304	324	342	357	369	377	383	384
45	1.08	12.0	28.7	57.9	90.5	121	150	178	206	231	255	276	295	311	325	335	343	347	349
50	1.08	10.4	25.0	48.6	78.8	106	132	158	182	205	227	246	263	278	290	299	306	310	311
55	1.08	8.66	21.1	39.1	65.2	90.5	113	136	157	178	197	213	229	242	252	261	267	270	271
60	1.08	6.89	17.0	29.2	50.7	73.7	93.7	113	131	149	165	179	192	203	213	220	225	228	229
65	1.08	5.96	13.6	22.9	36.5	55.1	73.4	89.1	104	118	131	143	154	163	170	176	181	183	184
70	1.08	5.00	10.0	16.3	24.6	36.9	51.5	65.0	76.7	87.3	97.0	106	114	121	127	132	135	137	137
75	1.08	4.02	6.47	10.9	15.4	22.5	30.1	40.8	50.0	57.2	63.8	69.8	75.3	80.0	83.6	86.9	89.2	90.3	90.3
80	1.08	3.03	4.52	5.44	8.00	11.3	15.2	20.3	25.8	29.5	32.7	36.1	39.0	41.3	43.1	44.8	45.9	46.4	46.3
85	1.08	2.02	2.74	3.04	3.01	2.94	2.62	4.34	6.09	7.22	8.02	8.78	9.33	9.78	10.0	10.3	10.5	10.5	10.4
90	1.08	1.01	0.95	0.85	0.74	0.77	0.80	0.75	0.71	0.69	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:03 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99LED962	TYPE: 99LED962	WEIGHT: 1
SPEC.:	DIM.: F 0.175 x 0.024	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

Table--2

UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.76	0.76	0.77	0.78	0.78	0.78	0.78	0.79	0.80	0.81	0.83	0.86	0.88	0.90	1.01	1.13	1.24	1.34	
-85	6.40	6.28	6.31	6.23	6.09	5.82	5.62	5.20	4.65	3.82	2.96	1.71	2.35	2.69	2.92	2.77	2.12	1.34	
-80	39.0	38.1	37.2	35.8	34.0	31.6	29.2	26.3	23.4	20.3	17.1	13.6	11.2	8.24	5.13	4.40	2.99	1.34	
-75	81.8	80.2	78.1	75.1	71.2	66.6	61.6	56.1	49.9	43.3	36.9	30.0	23.6	17.1	11.8	6.28	3.85	1.34	
-70	128	125	122	118	112	105	97.2	88.6	79.2	68.9	58.8	48.2	37.9	27.9	18.5	10.7	4.70	1.34	
-65	174	171	167	161	153	144	134	122	109	95.9	81.9	67.4	52.9	39.2	26.5	14.9	5.53	1.34	
-60	219	216	211	203	194	183	170	156	140	123	105	86.8	68.5	50.7	34.1	19.0	6.33	1.34	
-55	263	259	253	244	233	220	205	188	169	149	128	106	84.0	62.6	42.3	23.5	8.17	1.34	
-50	304	299	292	282	269	255	237	218	197	174	150	125	99.0	74.0	50.1	27.7	9.90	1.34	
-45	341	336	328	317	303	287	268	246	223	198	171	142	114	85.1	57.8	31.5	11.5	1.34	
-40	377	371	362	350	335	316	295	272	247	219	190	159	127	95.5	65.1	35.1	13.0	1.34	
-35	409	403	393	380	363	343	321	296	268	238	207	174	140	105	71.6	38.9	14.3	1.34	
-30	439	432	422	407	389	368	344	317	287	255	222	187	151	114	77.6	42.4	15.4	1.34	
-25	465	458	447	431	412	389	363	335	304	270	235	198	160	121	82.8	45.4	16.4	1.34	
-20	488	480	468	452	431	407	380	350	317	283	246	207	168	127	87.1	47.9	17.2	1.34	
-15	506	498	485	468	447	422	393	362	329	293	255	215	174	132	90.6	49.9	17.8	1.34	
-10	519	511	498	480	458	433	404	371	337	300	261	220	178	135	93.0	51.4	18.2	1.34	
-5	527	519	506	488	466	440	410	377	342	304	265	224	181	138	94.6	52.2	18.5	1.34	
0	532	523	510	491	469	442	412	379	344	306	266	225	182	138	95.1	52.4	18.5	1.34	
5	528	520	506	488	466	440	410	377	342	305	265	224	181	138	94.7	51.9	18.3	1.34	
10	520	512	499	482	460	434	404	372	337	300	261	221	179	136	93.3	50.7	17.9	1.34	
15	508	500	487	470	449	424	395	364	330	294	255	215	174	132	90.9	48.8	17.3	1.34	
20	491	483	471	455	434	410	382	352	319	284	247	208	168	128	87.5	46.4	16.5	1.34	
25	469	462	450	435	415	392	366	337	306	272	237	199	161	122	83.2	43.3	15.7	1.34	
30	443	437	426	411	393	371	347	319	290	258	224	188	152	115	77.9	39.5	14.6	1.34	
35	414	408	398	384	367	347	325	299	271	241	209	176	141	106	71.5	35.2	13.5	1.34	
40	382	376	367	355	339	321	300	276	250	222	193	162	130	97.1	63.7	30.4	12.2	1.34	
45	347	342	333	322	308	291	272	251	227	201	174	146	116	86.8	55.1	26.6	10.8	1.34	
50	309	305	297	287	275	260	242	223	202	178	154	128	102	75.5	46.1	23.1	9.33	1.34	
55	270	266	259	250	239	226	210	193	174	154	132	110	86.9	62.3	36.9	19.3	7.77	1.34	
60	228	224	218	211	201	190	176	161	145	128	109	90.2	70.6	48.2	27.3	15.4	6.13	1.34	
65	183	180	175	169	161	152	140	128	115	101	85.9	70.3	52.5	34.4	21.1	12.3	5.35	1.34	
70	136	134	131	125	120	112	104	94.4	84.7	73.9	62.2	49.0	34.8	22.8	14.8	9.02	4.55	1.34	
75	89.9	88.6	85.9	82.4	78.5	73.6	67.9	61.6	54.9	47.7	38.5	28.1	20.7	13.9	9.77	5.74	3.73	1.34	
80	46.1	45.3	44.0	42.1	40.1	37.6	34.5	31.0	27.7	23.9	18.5	13.5	10.1	7.14	4.80	4.08	2.90	1.34	
85	10.4	10.3	10.0	9.60	9.29	8.78	8.18	7.41	6.58	5.47	3.80	2.15	2.53	2.68	2.77	2.58	2.06	1.34	
90	0.67	0.67	0.67	0.68	0.68	0.67	0.68	0.69	0.69	0.68	0.73	0.77	0.79	0.80	0.94	1.08	1.21	1.34	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:03 August 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: