

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	427.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.5 degrees horizontal

Beam Spread	At 10% of Imax	128.4V x 133.5H
	At 50% of Imax	74.7V x 97.2H
	At 90% of Imax	41.2V x 48.2H

Beam Flux	Total	801.2 lumens per klm.
	To 10% of Imax	766.9 lumens per klm.
	To 50% of Imax	552.1 lumens per klm.
	To 90% of Imax	207.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	80.1 %

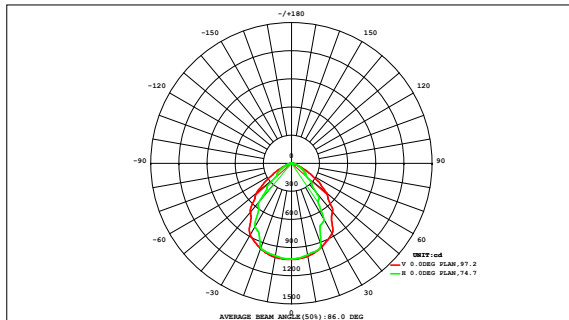
Luminaire Efficiency (Light Output Ratio)	80.1 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: 98Helios30_new_design	TYPE: 98Helios30_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98Helios30_new_design	Imax(cd)	1026
NOMINAL POWER(W)	30	AVAILABILITY(%)	76.7
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	1841
NOMINAL FLUX(lm)	2400	LOR(%)	80.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	1923
TEST VOLTAGE(V)	230	θ @50% (H,V)	97,75DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.01	0.02	0.04	0.06	0.08	0.09	0.10	0.10	0.08	0.06	0.03	0.02	0.01	0.00	0.00	0.71	0.00
90	0.00	0.01	0.06	0.19	0.37	0.58	0.80	0.97	1.06	1.07	0.99	0.82	0.60	0.38	0.18	0.06	0.01	0.00	8.15	0.00
80	0.00	0.04	0.22	0.56	1.06	1.63	2.19	2.64	2.89	2.93	2.75	2.32	1.72	1.09	0.57	0.21	0.04	0.00	22.9	6.39
70	0.00	0.09	0.42	1.08	2.03	3.09	4.16	4.98	5.39	5.73	5.69	4.80	3.75	2.36	1.11	0.42	0.09	0.00	45.2	39.5
60	0.01	0.15	0.67	1.73	3.19	5.33	7.07	9.15	10.8	11.8	11.7	10.3	7.58	4.71	2.05	0.66	0.15	0.01	87.1	84.0
50	0.01	0.21	0.95	2.57	5.38	9.38	13.4	16.7	19.2	20.1	19.6	16.4	12.2	7.74	3.34	0.94	0.21	0.01	148	146
40	0.01	0.26	1.27	3.79	8.32	13.9	19.1	22.9	25.3	26.2	25.0	21.1	15.9	10.1	4.56	1.28	0.26	0.01	199	198
30	0.02	0.31	1.58	5.03	10.5	17.1	23.0	27.3	29.6	29.8	28.1	24.3	18.0	11.7	5.49	1.55	0.29	0.02	234	232
20	0.02	0.33	1.81	5.99	12.1	18.6	24.8	28.6	30.6	30.7	29.1	25.4	19.2	12.5	5.99	1.71	0.31	0.02	248	246
10	0.02	0.33	1.85	6.21	12.4	18.8	24.8	28.5	30.4	30.6	28.9	25.0	18.5	11.8	5.66	1.67	0.31	0.02	246	244
0	0.02	0.31	1.65	5.63	11.5	17.6	23.6	27.3	29.1	29.2	26.6	21.8	16.0	9.75	4.62	1.46	0.29	0.02	226	225
-10	0.01	0.27	1.35	4.60	10.0	15.3	19.6	22.9	24.0	22.7	20.3	16.8	11.8	7.17	3.42	1.18	0.26	0.01	182	180
-20	0.01	0.21	0.99	3.31	7.48	11.4	14.2	16.7	16.7	15.7	13.5	10.9	7.68	4.49	2.38	0.90	0.21	0.01	127	125
-30	0.01	0.15	0.69	2.05	4.47	6.91	8.61	9.51	9.47	8.73	7.56	6.05	4.65	2.92	1.65	0.65	0.15	0.01	74.2	71.1
-40	0.00	0.09	0.43	1.13	2.34	3.59	4.32	5.09	5.28	5.10	4.71	3.96	2.98	1.97	1.07	0.42	0.09	0.00	42.6	36.7
-50	0.00	0.04	0.22	0.58	1.11	1.75	2.32	2.75	2.97	2.94	2.67	2.20	1.64	1.06	0.57	0.22	0.04	0.00	23.1	6.30
-60	0.00	0.01	0.07	0.20	0.39	0.63	0.86	1.03	1.12	1.11	1.00	0.81	0.59	0.37	0.19	0.06	0.01	0.00	8.43	0.00
-70	0.00	0.00	0.01	0.02	0.03	0.06	0.08	0.09	0.09	0.09	0.07	0.05	0.04	0.02	0.01	0.01	0.00	0.00	0.70	0.00
-80	0.00	0.00	0.01	0.02	0.03	0.06	0.08	0.09	0.09	0.09	0.07	0.05	0.04	0.02	0.01	0.01	0.00	0.00	0.70	0.00
-90	0.00	0.00	0.01	0.02	0.03	0.06	0.08	0.09	0.09	0.09	0.07	0.05	0.04	0.02	0.01	0.01	0.00	0.00	0.70	0.00
HORIZONTAL (DEG)																				
Φ t	0.14	2.82	14.2	44.7	92.7	146	193	227	244	244	228	193	143	90.2	42.9	13.4	2.72	0.15	1923	---
Φ a	0.00	0.00	7.62	39.5	87.7	141	188	222	239	239	223	188	138	85.1	37.6	6.44	0.00	0.00	---	1841

one-half-peak spread: U:34.2,D:37.8 , L:47.5,R:46.1

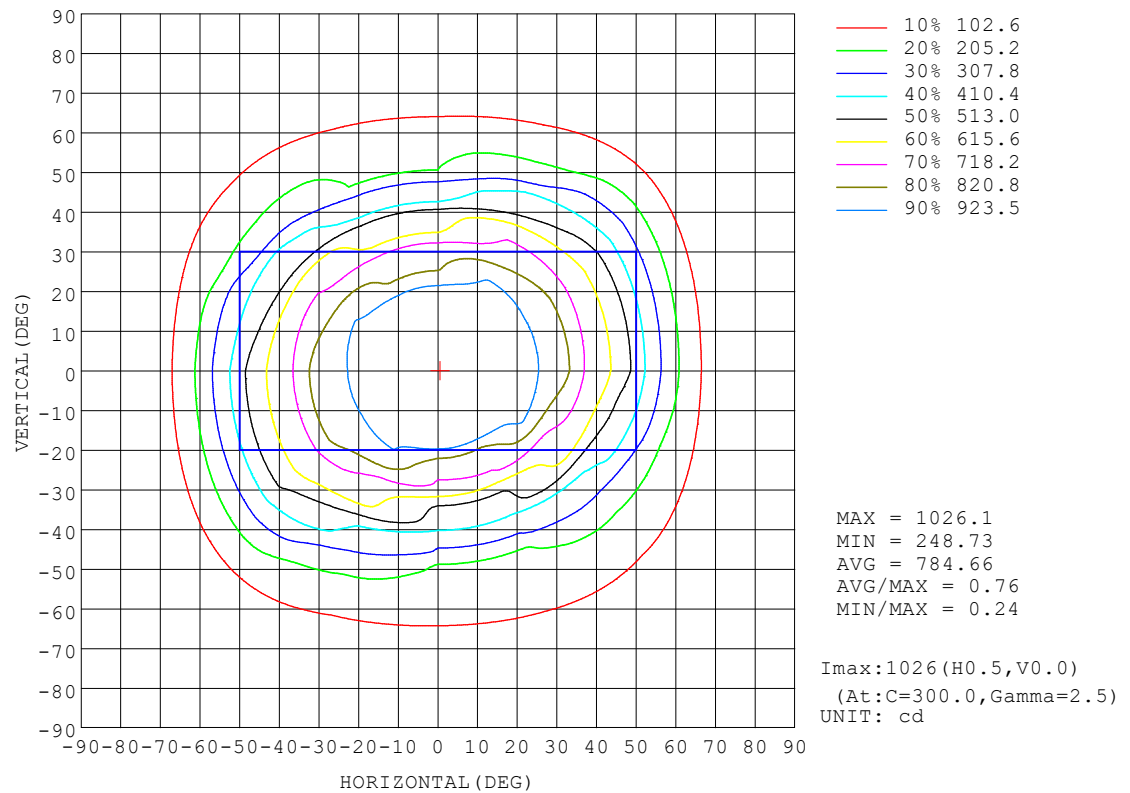
NEMA Beam Type: Type 7 x 6 (H x V)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:11 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 98Helios30_new_design	TYPE: 98Helios30_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:

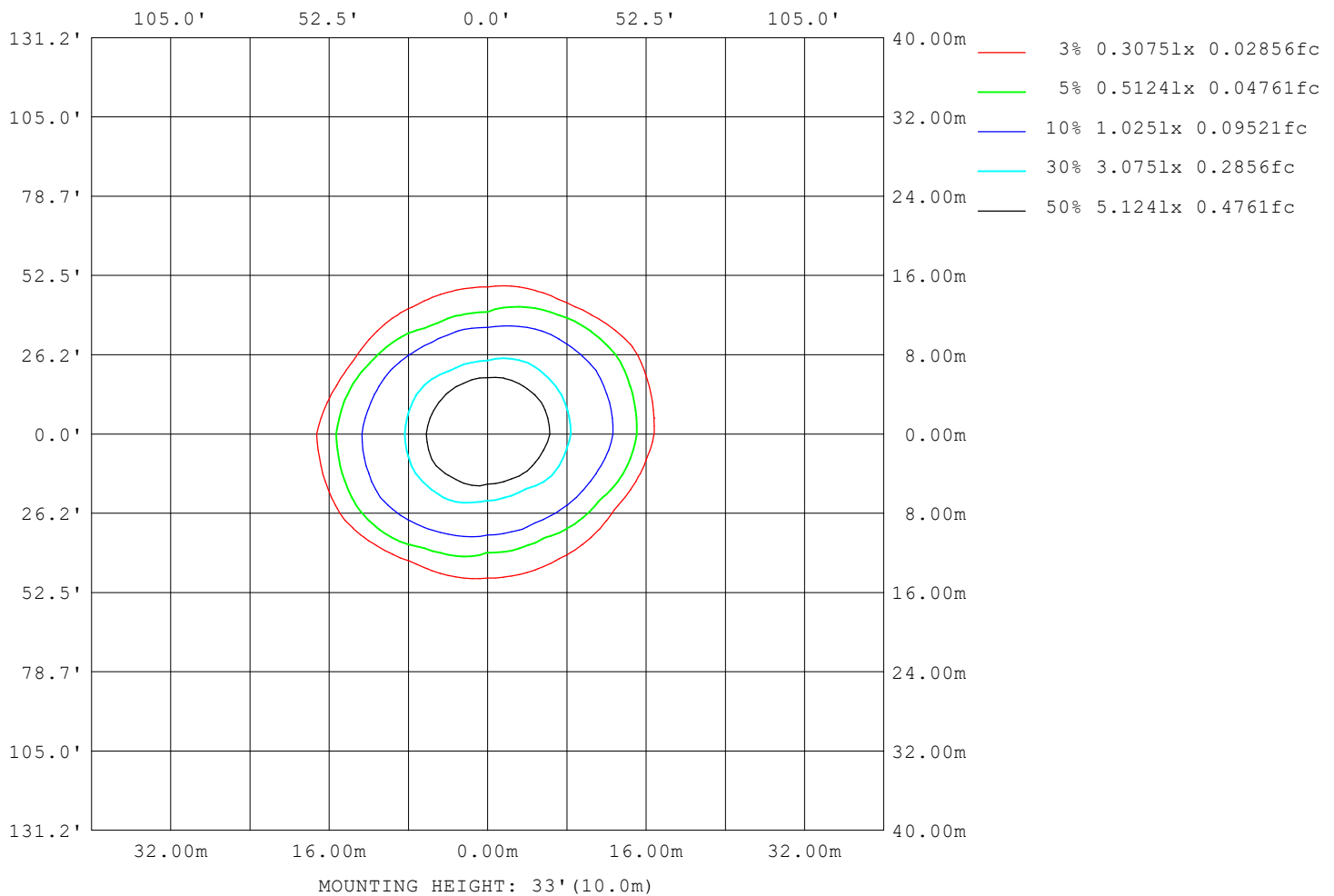


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ISOLUX DIAGRAM

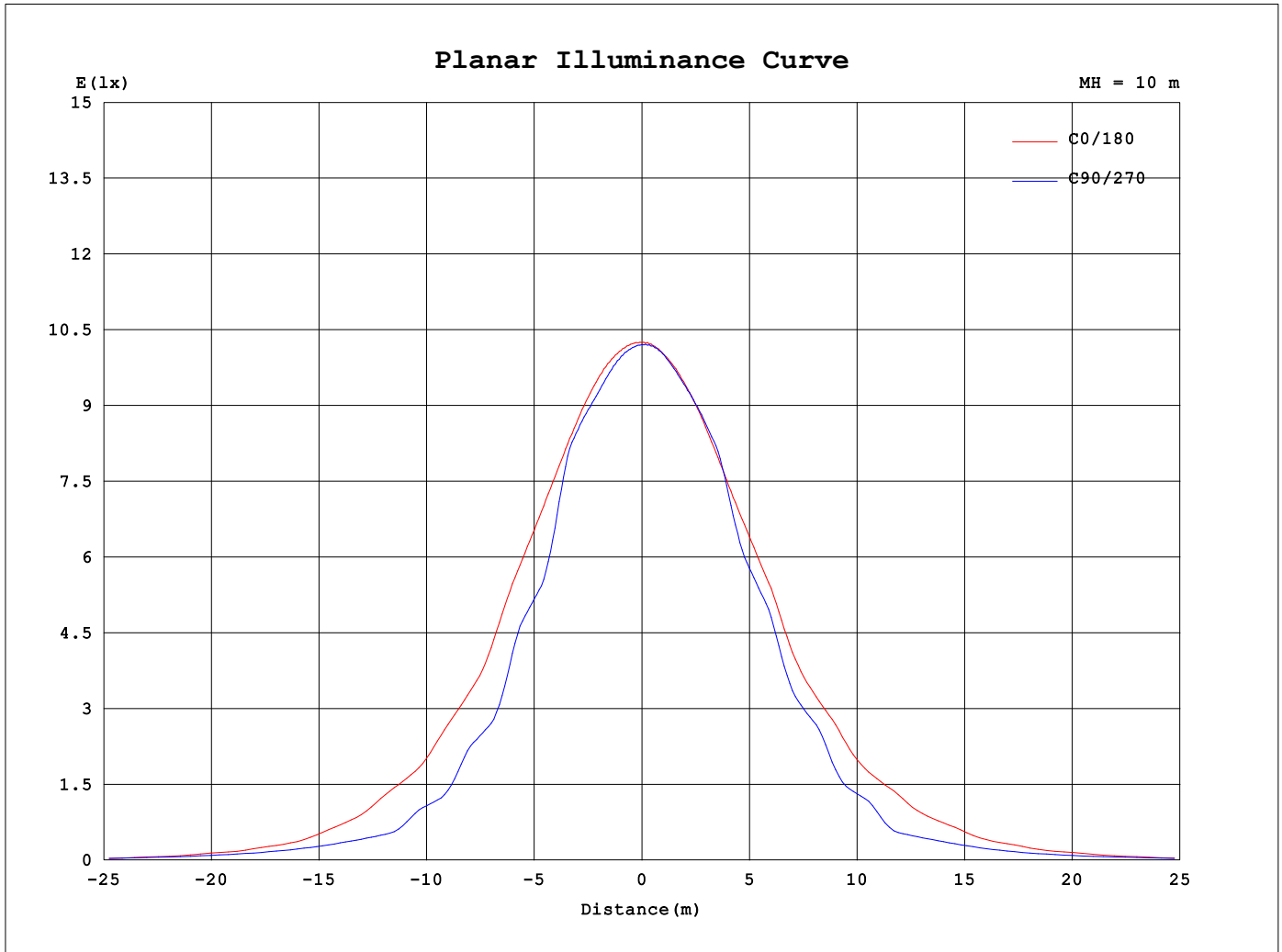
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MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:



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Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

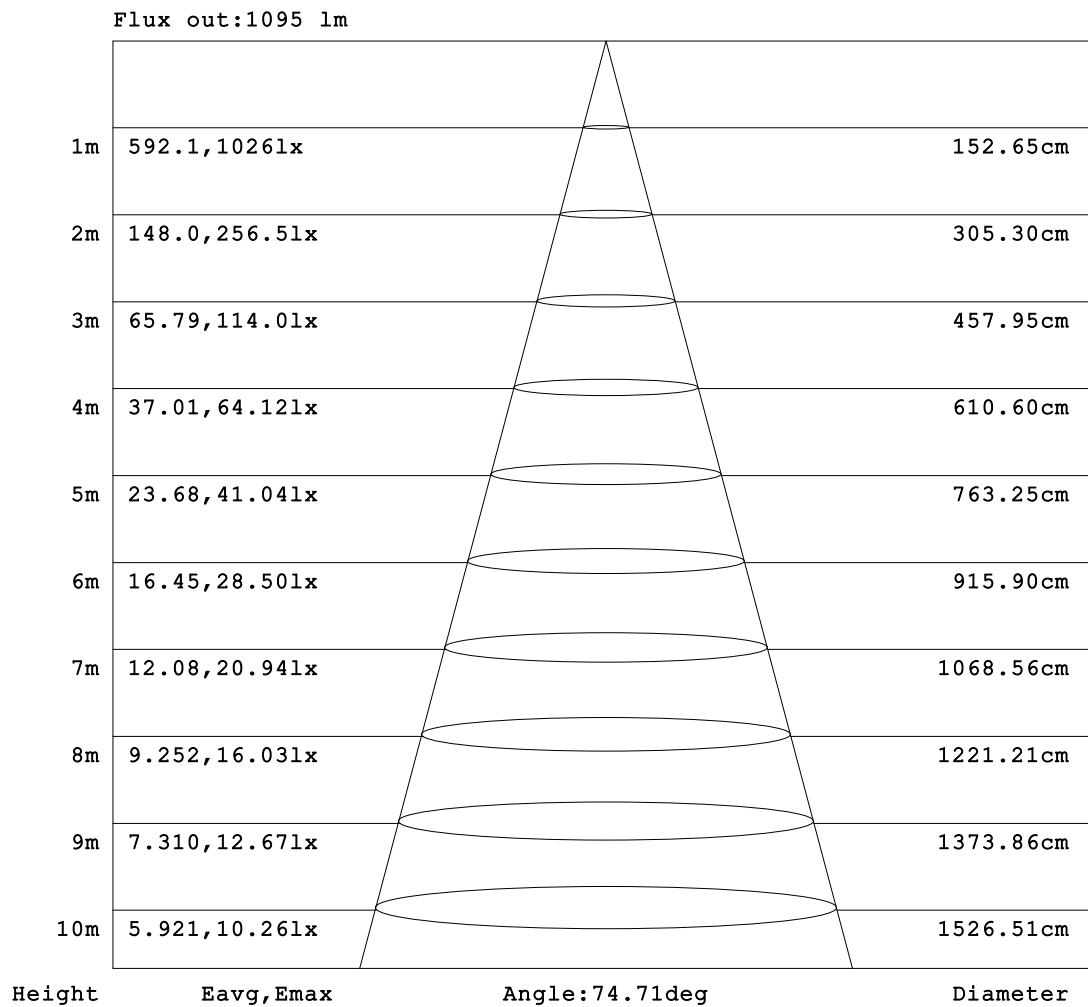


C Range: 0 - 360DEG
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 Temperature: 25.3°C
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 Test Date: 11 July 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

AAI Figure

NAME: 98Helios30_new_design	TYPE: 98Helios30_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:11 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: 98Helios30_new_design	TYPE: 98Helios30_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:

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
-90	0.48	0.50	0.52	0.54	0.56	0.58	0.60	0.58	0.57	0.55	0.53	0.51	0.49	0.48	0.46	0.45	0.44	0.43	0.41
-85	0.48	0.49	0.49	0.50	0.51	0.52	0.53	0.54	0.60	0.64	0.70	0.73	0.77	0.82	0.87	0.85	0.78	0.67	0.53
-80	0.48	0.47	0.46	0.47	0.74	1.37	2.29	3.34	4.65	6.24	8.05	9.80	11.3	12.1	12.8	13.4	13.8	14.0	13.9
-75	0.48	0.46	0.45	1.01	2.30	4.39	7.30	10.7	14.3	17.6	20.9	24.2	27.3	30.0	32.2	34.0	35.2	35.9	35.9
-70	0.48	0.44	0.72	2.23	5.17	9.91	15.3	20.5	26.2	32.1	38.1	44.1	49.6	54.1	58.0	60.9	62.9	63.9	63.9
-65	0.48	0.43	1.27	4.09	9.89	16.8	24.0	32.2	41.2	51.0	60.7	69.0	76.5	83.4	89.0	93.4	96.2	97.6	97.6
-60	0.48	0.42	2.04	6.88	15.3	24.0	34.4	46.6	60.7	72.9	85.6	102	111	116	123	128	132	134	135
-55	0.48	0.48	3.00	10.6	20.5	32.2	46.7	64.4	79.2	109	131	143	150	143	153	170	179	178	173
-50	0.48	0.61	4.15	14.3	26.1	41.2	61.4	79.5	118	155	182	189	211	225	225	225	224	213	194
-45	0.48	0.77	5.61	17.6	32.0	51.7	74.2	116	167	209	235	286	290	306	334	340	337	324	306
-40	0.48	0.95	7.43	20.9	38.1	62.6	88.7	152	217	265	333	363	410	410	397	413	435	442	424
-35	0.48	1.14	9.35	24.2	44.3	71.7	120	181	253	359	414	468	476	508	568	601	574	536	494
-30	0.48	1.33	11.0	27.2	50.8	79.1	146	227	320	407	506	529	591	644	662	654	664	690	689
-25	0.48	1.50	12.4	30.0	56.8	89.6	171	251	369	479	538	636	671	707	736	777	818	791	730
-20	0.48	1.67	13.7	32.4	61.9	112	185	282	397	513	586	675	726	803	844	903	916	912	914
-15	0.48	1.79	14.6	34.4	65.8	121	207	322	429	529	642	697	792	867	902	933	949	964	974
-10	0.48	1.88	15.2	35.9	68.5	126	229	352	462	544	665	720	841	888	923	956	975	988	990
-5	0.48	1.94	15.6	36.8	70.1	131	238	364	483	558	675	740	858	901	940	974	994	1007	1012
0	0.48	1.95	15.7	37.1	70.7	133	243	370	490	563	680	749	865	907	947	983	1006	1019	1025
5	0.48	1.93	15.6	36.8	69.9	130	231	353	467	543	669	737	843	907	945	974	995	1010	1019
10	0.48	1.86	15.2	35.9	68.0	123	215	330	429	516	642	718	805	893	936	963	983	995	1000
15	0.48	1.76	14.5	34.3	65.1	116	189	290	379	490	586	700	751	841	902	939	970	982	986
20	0.48	1.62	13.6	32.3	61.1	107	167	239	334	461	511	662	715	764	834	851	896	944	958
25	0.48	1.45	12.4	29.8	56.0	88.2	151	201	300	391	462	546	668	680	751	791	803	815	826
30	0.48	1.27	11.0	27.0	50.1	78.0	129	176	249	299	423	449	541	626	621	673	746	777	783
35	0.48	1.08	9.37	24.0	43.9	70.0	107	147	171	255	302	393	420	471	565	580	592	604	611
40	0.48	0.89	7.47	20.7	37.7	60.6	86.1	124	145	179	243	271	328	382	377	426	493	533	544
45	0.48	0.72	5.59	17.4	31.7	50.5	71.8	98.4	123	142	175	221	225	224	267	346	366	371	373
50	0.48	0.56	4.04	14.1	25.8	40.6	58.6	77.4	99.0	121	137	155	186	193	197	202	205	207	207
55	0.48	0.45	2.81	10.6	20.1	31.7	45.5	60.7	76.6	93.3	110	124	136	150	163	173	180	184	185
60	0.48	0.39	1.81	6.95	14.9	23.5	33.7	45.1	57.1	69.3	81.1	92.5	103	111	120	127	132	135	136
65	0.48	0.40	1.07	3.87	9.92	16.2	23.4	31.4	39.8	48.5	56.9	64.9	72.1	78.6	84.5	89.2	92.7	94.8	95.3
70	0.48	0.41	0.59	1.86	5.01	9.96	14.6	19.8	25.2	30.8	36.3	41.5	46.3	50.7	54.5	57.6	59.9	61.2	61.5
75	0.48	0.42	0.39	0.74	1.80	4.01	7.46	10.3	13.3	16.7	19.8	22.8	25.6	28.1	30.3	32.0	33.3	34.0	34.2
80	0.48	0.44	0.40	0.38	0.48	0.82	1.52	2.57	3.78	5.08	6.35	7.52	8.68	10.1	11.4	12.5	13.3	13.7	13.8
85	0.48	0.45	0.42	0.40	0.38	0.36	0.34	0.33	0.34	0.35	0.38	0.38	0.35	0.39	0.47	0.54	0.59	0.61	0.62
90	0.48	0.47	0.45	0.44	0.42	0.41	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37

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MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	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	0.41	0.41	0.41	0.41	0.41	0.41	0.43	0.44	0.45	0.47	0.48	0.50	0.52	0.54	0.56	0.58	0.60	0.62	
-85	0.52	0.50	0.47	0.42	0.37	0.36	0.41	0.42	0.40	0.41	0.42	0.43	0.46	0.49	0.52	0.55	0.58	0.62	
-80	13.6	13.1	12.2	11.0	9.59	8.11	7.08	6.01	4.85	3.67	2.52	1.50	0.84	0.55	0.49	0.52	0.57	0.62	
-75	35.5	34.6	33.1	31.1	28.7	26.0	23.2	20.1	16.6	13.3	10.4	7.42	4.19	1.93	0.80	0.51	0.55	0.62	
-70	63.3	61.7	59.2	55.8	51.7	47.1	42.1	36.8	31.1	25.5	20.0	14.8	10.1	5.38	2.08	0.67	0.54	0.62	
-65	96.7	94.3	90.5	85.4	79.3	72.5	65.3	57.3	48.8	40.2	31.6	23.6	16.3	10.1	4.37	1.19	0.53	0.62	
-60	134	131	126	119	111	102	91.7	80.7	69.1	57.2	45.3	33.8	23.5	14.8	7.39	2.08	0.52	0.62	
-55	171	168	162	154	144	132	120	106	91.2	75.8	60.4	45.2	31.5	20.0	10.7	3.31	0.56	0.62	
-50	194	192	188	184	177	166	145	130	114	95.4	76.1	57.4	40.2	25.5	14.0	4.76	0.66	0.62	
-45	305	299	267	214	203	201	192	156	133	115	94.1	69.6	49.2	31.3	17.1	6.34	0.79	0.62	
-40	410	374	329	313	312	263	225	207	156	135	116	82.5	58.1	37.1	20.4	7.97	0.99	0.62	
-35	493	489	481	445	371	352	318	242	212	157	136	100	66.5	42.7	23.5	9.57	1.21	0.62	
-30	676	626	542	529	540	437	378	338	256	209	163	121	73.8	48.0	26.5	11.1	1.46	0.62	
-25	730	725	720	647	600	592	452	398	328	265	184	140	82.6	52.9	29.2	12.4	1.68	0.62	
-20	890	813	788	774	682	659	582	458	408	306	217	154	96.6	57.1	31.4	13.4	1.90	0.62	
-15	974	968	914	890	784	707	662	535	457	355	259	177	105	60.4	33.3	14.2	2.09	0.62	
-10	988	983	970	950	879	772	698	604	495	410	298	198	112	62.7	34.7	14.8	2.22	0.62	
-5	1012	1002	985	961	918	835	735	652	536	455	325	211	118	64.0	35.5	15.2	2.31	0.62	
0	1025	1018	999	967	928	882	765	684	572	489	345	221	121	64.4	35.8	15.3	2.34	0.62	
5	1016	1011	995	962	923	877	758	682	567	484	344	221	120	64.2	35.5	15.2	2.32	0.62	
10	1001	997	980	949	911	860	735	673	552	467	334	215	116	63.0	34.7	14.8	2.24	0.62	
15	985	978	960	930	892	820	715	651	539	434	312	200	111	60.7	33.3	14.1	2.12	0.62	
20	956	951	934	892	842	754	693	606	517	397	277	177	102	57.5	31.5	13.2	1.95	0.62	
25	861	883	860	811	761	709	653	553	482	369	250	165	84.5	53.3	29.2	12.1	1.73	0.62	
30	791	774	750	737	706	642	562	513	415	326	226	144	74.8	48.3	26.5	10.7	1.51	0.62	
35	642	669	688	670	593	530	500	432	368	264	181	114	67.7	42.8	23.5	9.18	1.27	0.62	
40	561	554	524	493	479	464	396	349	284	223	156	86.0	59.2	37.1	20.4	7.61	1.04	0.62	
45	395	411	418	417	377	325	311	256	219	168	113	71.4	49.7	31.3	17.2	6.09	0.83	0.62	
50	240	262	266	264	263	245	204	189	158	117	78.2	58.8	40.4	25.5	13.5	4.66	0.68	0.62	
55	197	203	197	172	154	157	149	136	108	78.2	62.4	45.7	31.6	20.0	9.91	3.40	0.57	0.62	
60	136	135	132	128	121	115	103	85.2	71.5	58.8	45.9	33.9	23.6	14.4	6.74	2.30	0.52	0.62	
65	96.2	95.3	92.7	88.3	82.6	75.5	67.5	58.9	49.7	40.5	31.8	23.6	16.2	8.85	4.26	1.38	0.53	0.62	
70	61.7	60.8	58.9	56.1	52.4	47.9	42.7	37.1	31.3	25.6	20.1	14.1	8.53	4.94	2.42	0.75	0.54	0.62	
75	34.2	33.6	32.4	30.8	28.7	26.2	23.3	20.3	17.1	13.0	9.06	5.98	3.99	2.41	1.03	0.51	0.55	0.62	
80	13.9	13.6	13.1	12.5	11.7	10.9	9.31	7.62	5.87	4.27	3.13	2.26	1.36	0.72	0.49	0.52	0.57	0.62	
85	0.80	0.95	1.04	1.07	1.03	0.96	0.83	0.72	0.60	0.53	0.46	0.42	0.45	0.48	0.51	0.55	0.58	0.62	
90	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.44	0.45	0.47	0.48	0.50	0.52	0.54	0.56	0.58	0.60	0.62	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:11 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks: