

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	441.2 cd per klm.
(Luminaire orientation as tested.)	4.0 degrees vertical
	2.0 degrees horizontal

Beam Spread	At 10% of Imax	133.9V x 135.0H
	At 50% of Imax	75.6V x 98.1H
	At 90% of Imax	41.6V x 47.7H

Beam Flux	Total	857.3 lumens per klm.
	To 10% of Imax	820.9 lumens per klm.
	To 50% of Imax	583.8 lumens per klm.
	To 90% of Imax	214.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	85.7 %

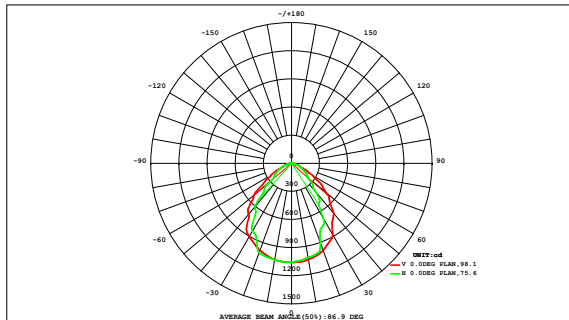
Luminaire Efficiency (Light Output Ratio)	85.7 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 July 2022

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/WH_new_design	TYPE: 98Helios30/WH_new_design	WEIGHT: 0.350
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	
MODE	98Helios30/WH_new_design	Imax(cd)	1059
NOMINAL POWER(W)	30	AVAILABILITY(%)	82.1
RATED VOLTAGE (V)	230	Avai. FLUX(lm)	1970
NOMINAL FLUX(lm)	2400	LOR(%)	85.7
LAMPS INSIDE	1	TOTAL FLUX(lm)	2057
TEST VOLTAGE (V)	230	θ @50% (H,V)	98,76DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.02	0.04	0.09	0.14	0.20	0.25	0.28	0.29	0.27	0.24	0.17	0.09	0.04	0.02	0.01	0.00	2.15	0.00
90	0.00	0.02	0.14	0.37	0.68	1.04	1.38	1.64	1.79	1.79	1.66	1.40	1.04	0.66	0.32	0.11	0.02	0.00	14.1	0.00
80	0.00	0.08	0.37	0.88	1.57	2.36	3.11	3.70	4.02	4.05	3.78	3.23	2.47	1.59	0.86	0.34	0.07	0.00	32.5	19.5
70	0.01	0.16	0.63	1.50	2.67	3.97	5.22	6.09	6.56	7.03	7.08	6.09	4.80	3.19	1.55	0.62	0.14	0.01	57.3	52.6
60	0.01	0.23	0.92	2.18	3.92	6.28	8.46	10.9	13.0	13.9	13.8	12.0	9.11	5.84	2.73	0.91	0.22	0.01	104	101
50	0.02	0.31	1.20	3.01	6.18	10.5	14.8	18.6	21.0	21.9	21.4	18.3	13.7	9.05	4.13	1.26	0.29	0.02	166	164
40	0.02	0.37	1.50	4.23	8.98	14.8	20.4	24.7	27.1	28.0	26.7	22.7	17.4	11.3	5.35	1.64	0.36	0.02	215	214
30	0.03	0.41	1.78	5.38	11.0	17.9	24.4	28.9	31.1	31.2	29.3	25.5	19.4	12.8	6.17	1.94	0.40	0.03	248	246
20	0.03	0.43	1.97	6.22	12.3	19.1	25.9	29.8	31.8	31.9	30.0	26.1	20.5	13.5	6.56	2.08	0.42	0.03	259	257
10	0.03	0.43	1.98	6.33	12.5	19.0	25.5	29.5	31.4	31.4	29.6	25.4	19.4	12.6	6.14	2.02	0.42	0.03	254	252
0	0.03	0.40	1.78	5.70	11.5	17.7	23.6	28.0	29.9	29.8	26.9	21.9	16.5	10.4	5.06	1.78	0.39	0.03	231	230
-10	0.02	0.35	1.47	4.61	9.90	15.2	19.6	22.9	24.3	23.0	20.4	17.0	12.2	7.54	3.83	1.46	0.34	0.02	184	182
-20	0.02	0.28	1.11	3.35	7.22	11.3	14.0	16.4	16.7	15.7	13.6	11.1	8.02	4.89	2.82	1.13	0.28	0.02	128	126
-30	0.01	0.21	0.82	2.12	4.45	6.80	8.55	9.62	9.61	8.98	7.97	6.53	5.18	3.39	1.99	0.83	0.21	0.01	77.3	73.9
-40	0.01	0.13	0.54	1.28	2.47	3.81	4.61	5.49	5.84	5.75	5.33	4.49	3.44	2.34	1.32	0.55	0.13	0.01	47.5	41.6
-50	0.00	0.06	0.29	0.70	1.29	1.96	2.61	3.10	3.35	3.33	3.06	2.56	1.95	1.31	0.73	0.30	0.06	0.00	26.7	10.0
-60	0.00	0.02	0.09	0.25	0.48	0.74	1.00	1.19	1.29	1.28	1.17	0.96	0.71	0.46	0.24	0.08	0.02	0.00	9.99	0.00
-70	0.00	0.01	0.01	0.02	0.04	0.06	0.09	0.10	0.10	0.09	0.08	0.06	0.05	0.03	0.02	0.01	0.01	0.00	0.78	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HORIZONTAL (DEG)																				
Φ t	0.23	3.90	16.6	48.2	97.2	153	204	241	259	259	242	206	156	101	49.9	17.1	3.80	0.24	2057	---
Φ a	0.00	0.00	8.67	42.3	91.8	147	198	236	254	254	237	200	151	95.6	44.3	9.82	0.00	0.00	---	1970

one-half-peak spread: U:33.9,D:37.6 , L:47.8,R:50.8

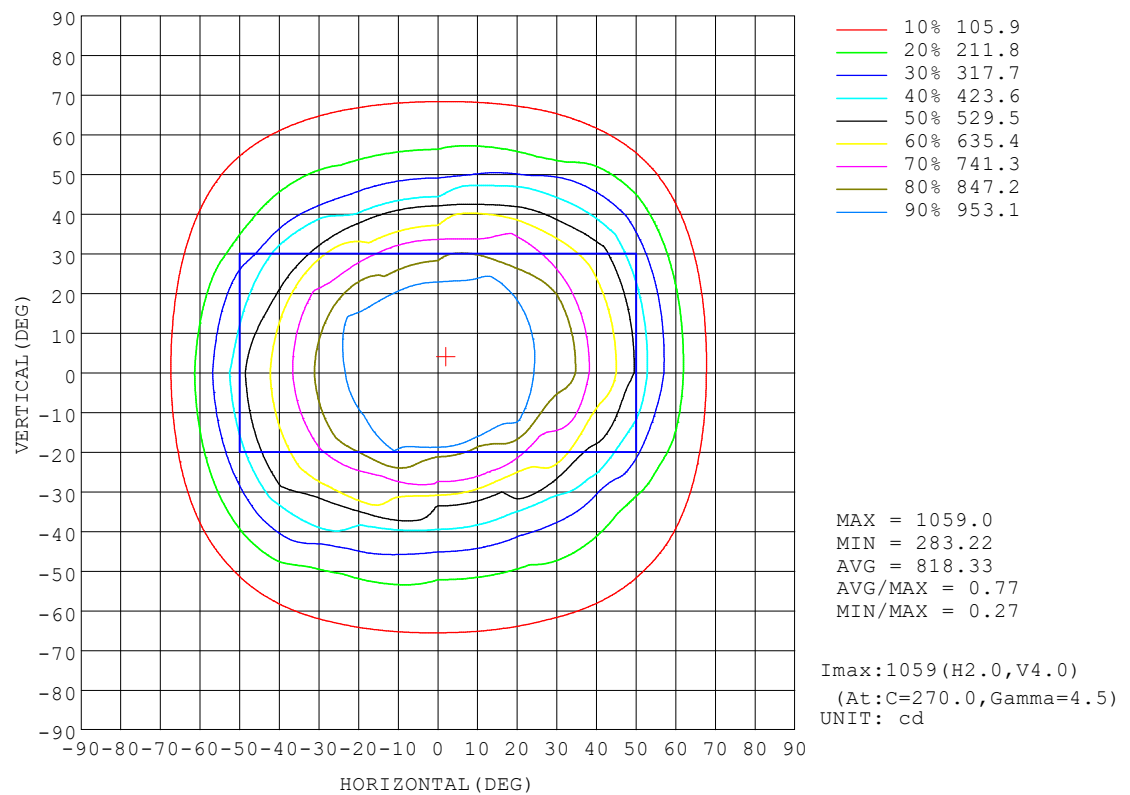
NEMA Beam Type: Type 7

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/WH_new_design	TYPE: 98Helios30/WH_new_design	WEIGHT: 0.350
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:

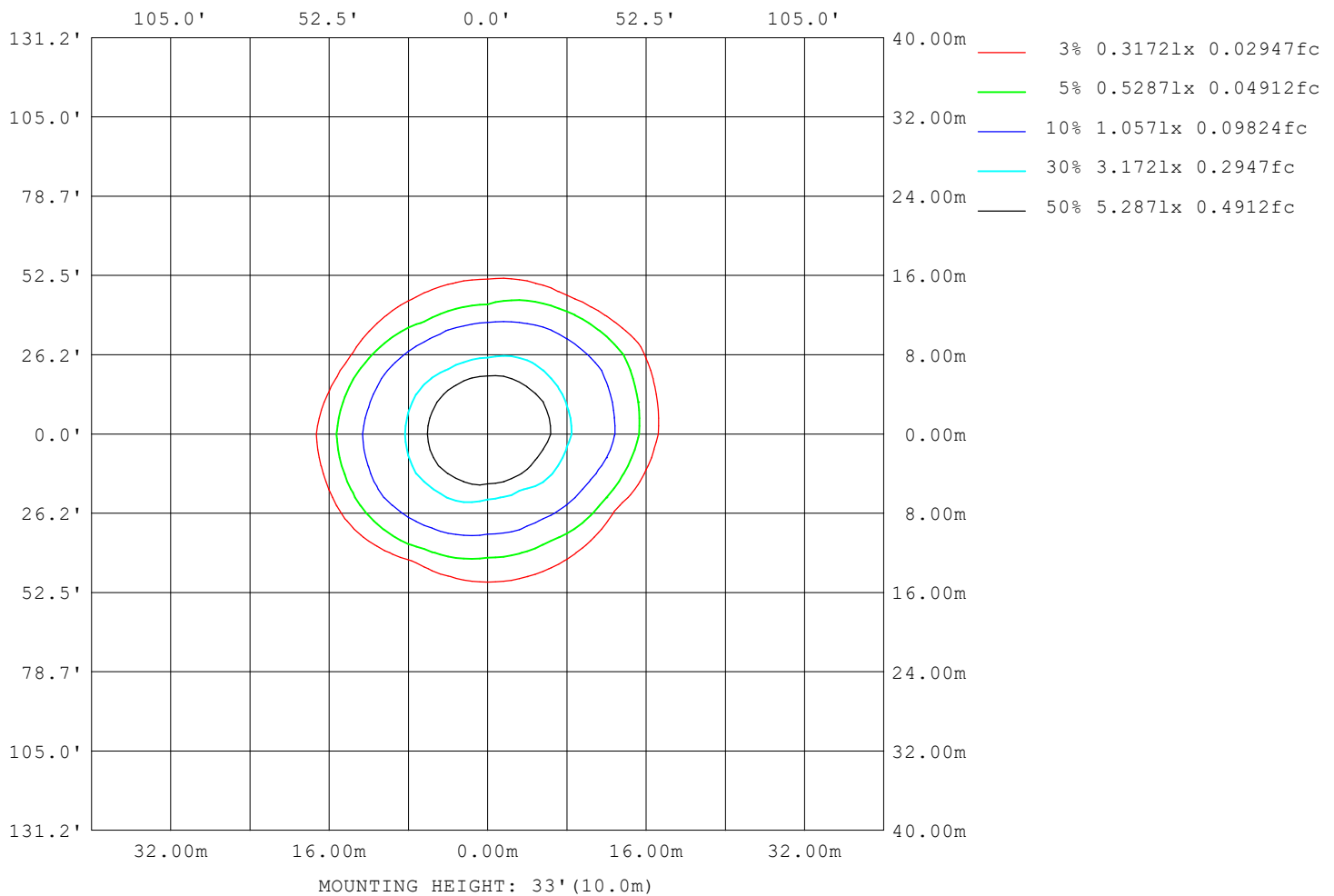


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Test Distance:6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

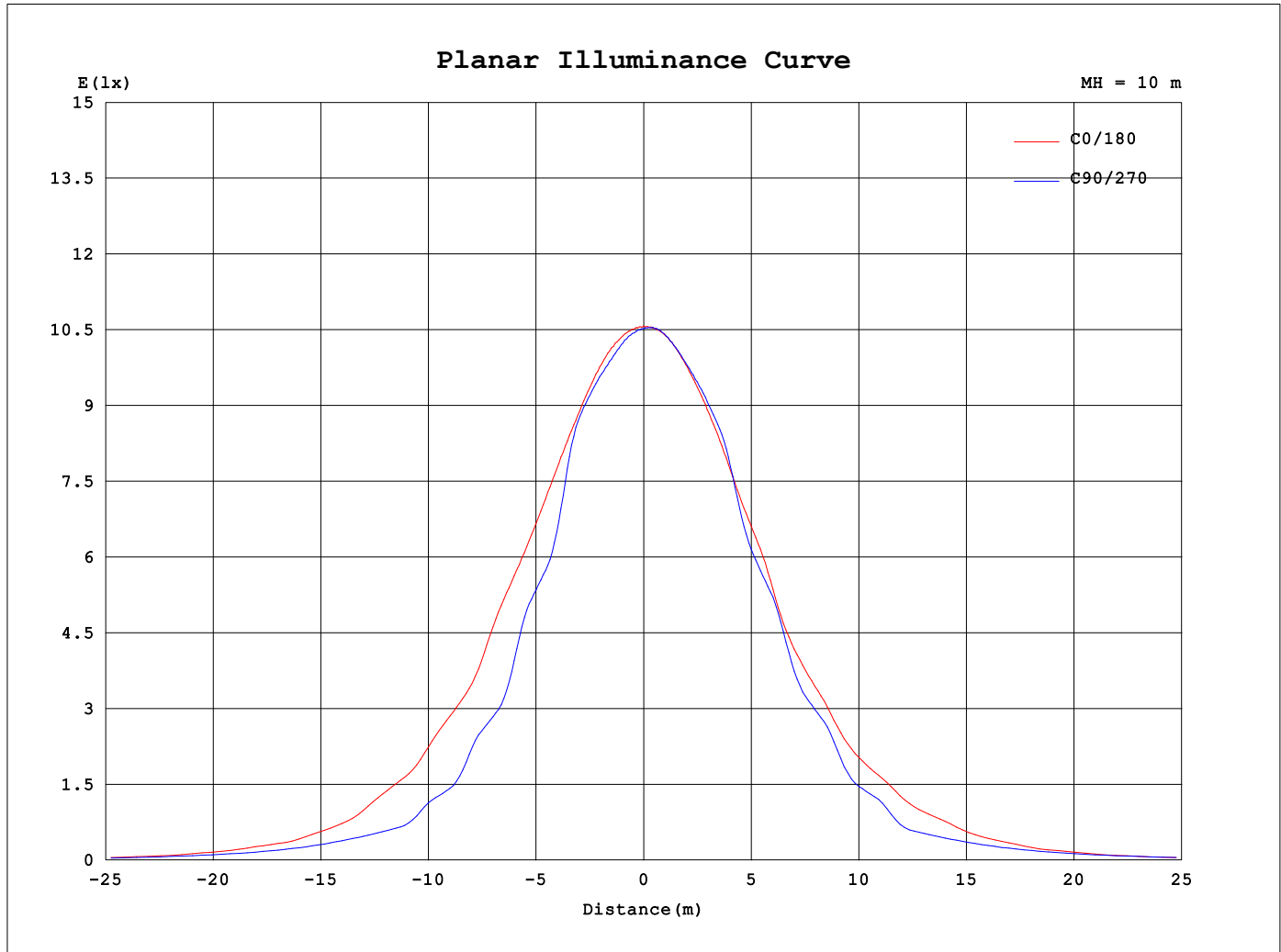
NAME: 98Helios30/WH_new_design	TYPE: 98Helios30/WH_new_design	WEIGHT: 0.350
SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 58x28	Shielding Angle:



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Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

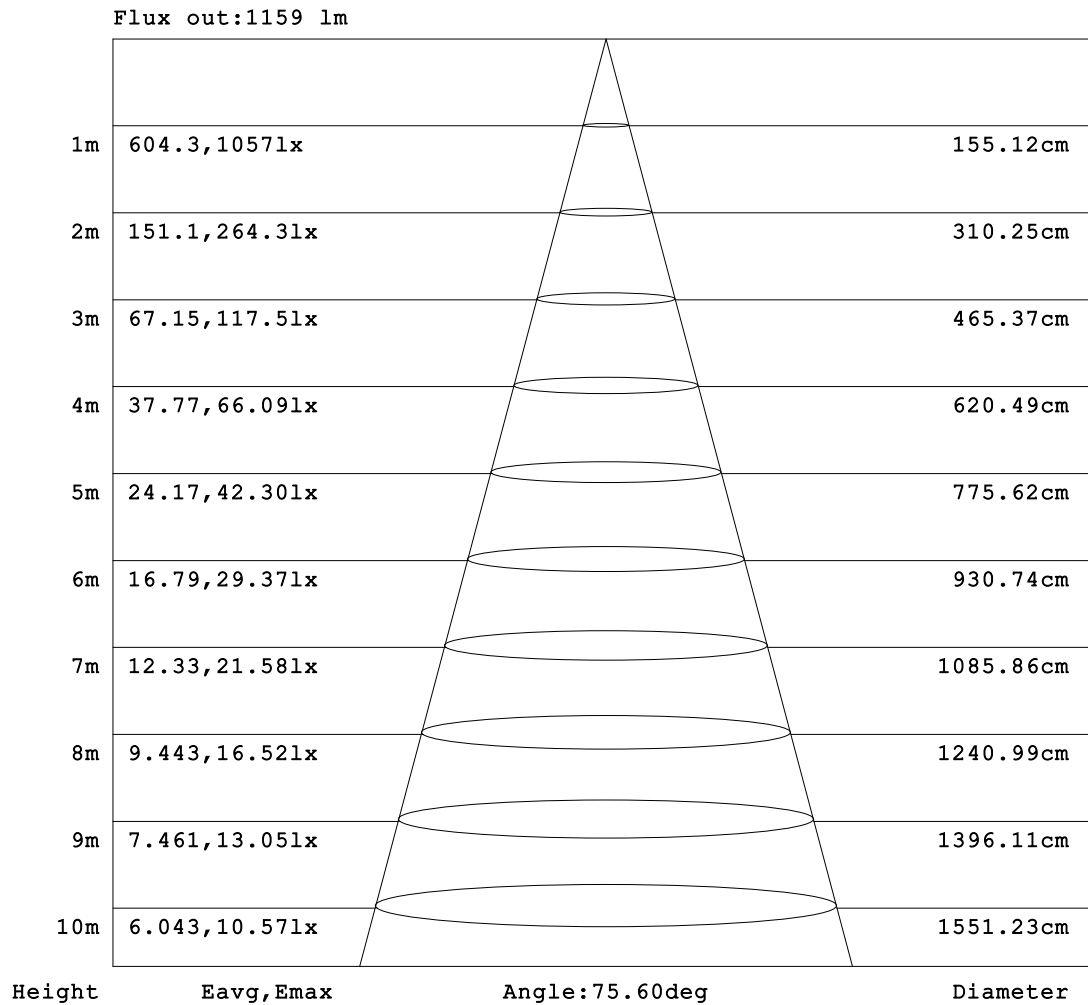


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 July 2022

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:

AAI Figure

NAME: 98Helios30/WH_new_design	TYPE: 98Helios30/WH_new_design	WEIGHT: 0.350
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/WH_new_design	TYPE: 98Helios30/WH_new_design	WEIGHT: 0.350
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	0.58	0.61	0.64	0.66	0.69	0.72	0.75	0.73	0.71	0.69	0.67	0.66	0.64	0.62	0.61	0.60	0.59	0.57	0.56
-85	0.58	0.60	0.62	0.65	0.68	0.71	0.74	0.75	0.80	0.85	0.92	0.90	0.82	0.86	0.93	0.94	0.90	0.82	0.72
-80	0.58	0.60	0.63	0.73	1.12	1.96	3.15	4.41	5.77	7.26	8.91	10.6	12.4	13.6	14.4	14.9	15.1	14.9	14.3
-75	0.58	0.61	0.72	1.67	3.52	6.31	9.71	13.4	17.7	21.8	25.6	29.2	32.4	35.4	38.0	40.0	41.3	42.1	42.2
-70	0.58	0.61	1.28	3.62	7.83	13.4	19.5	25.8	32.2	38.8	45.3	51.5	57.3	62.3	66.6	69.9	72.2	73.5	73.7
-65	0.58	0.63	2.27	6.56	14.0	22.1	30.5	39.5	49.2	59.2	69.0	78.0	86.4	93.8	100	105	108	110	110
-60	0.58	0.67	3.52	10.9	20.8	31.2	42.6	55.1	68.8	82.2	94.5	111	122	130	138	143	147	150	151
-55	0.58	0.91	5.10	15.5	27.6	41.0	56.1	72.5	89.0	110	135	155	161	161	169	179	189	195	194
-50	0.58	1.19	7.10	20.2	34.6	51.4	70.6	89.7	123	160	181	201	204	227	239	240	237	232	222
-45	0.58	1.51	9.63	24.7	41.8	62.2	85.0	115	169	203	234	278	295	291	318	339	341	336	322
-40	0.58	1.87	12.3	29.0	49.0	73.2	97.9	151	205	258	328	352	396	423	409	407	412	415	401
-35	0.58	2.23	14.7	33.2	56.0	83.6	124	190	258	343	397	468	483	486	527	589	592	559	517
-30	0.58	2.58	16.8	37.1	62.7	92.6	149	222	299	403	502	531	567	636	679	674	665	679	680
-25	0.58	2.89	18.7	40.6	68.9	101	180	262	367	452	548	607	680	713	736	768	815	807	759
-20	0.58	3.17	20.3	43.7	74.3	114	196	287	403	518	577	691	732	784	848	912	942	919	902
-15	0.58	3.40	21.6	46.3	78.7	129	211	314	427	545	620	717	772	881	918	960	982	996	1004
-10	0.58	3.57	22.6	48.2	82.1	136	228	345	450	560	665	737	823	909	948	986	1006	1016	1022
-5	0.58	3.67	23.2	49.5	84.3	141	244	368	470	570	691	752	862	927	973	1007	1025	1038	1042
0	0.58	3.71	23.5	50.1	85.3	143	252	379	481	576	702	760	879	937	989	1021	1042	1056	1057
5	0.58	3.71	23.4	49.9	85.0	141	240	363	465	560	690	757	867	944	988	1017	1037	1053	1057
10	0.58	3.65	23.0	49.1	83.6	136	222	338	438	539	661	747	833	942	984	1009	1030	1041	1045
15	0.58	3.52	22.2	47.6	81.0	130	202	307	400	515	607	729	787	905	955	995	1021	1031	1035
20	0.58	3.31	21.1	45.4	77.2	119	186	269	359	488	542	688	754	822	891	911	968	1007	1015
25	0.58	3.04	19.7	42.6	72.4	107	172	228	324	426	493	592	698	730	815	842	854	877	888
30	0.58	2.74	18.0	39.4	66.7	99.0	149	197	283	334	457	485	598	663	678	752	815	830	835
35	0.58	2.40	16.0	35.7	60.4	90.1	129	170	210	285	348	439	458	544	615	627	644	669	681
40	0.58	2.03	13.7	31.7	53.6	79.9	109	148	172	230	273	313	396	420	431	511	578	604	610
45	0.58	1.64	11.1	27.4	46.5	69.3	95.0	124	151	173	222	253	262	278	357	398	407	412	414
50	0.58	1.29	8.40	23.0	39.2	58.5	80.2	104	128	151	170	195	225	227	232	238	246	262	269
55	0.58	0.96	6.18	18.4	32.0	47.8	65.7	84.7	104	124	142	159	174	189	201	211	217	220	222
60	0.58	0.67	4.34	13.7	25.0	37.5	51.5	66.6	81.8	97.1	112	126	138	150	159	167	173	176	178
65	0.58	0.62	2.83	8.77	18.2	27.8	38.3	49.6	61.0	72.5	83.6	94.2	104	112	120	125	130	132	133
70	0.58	0.59	1.59	5.02	11.3	18.9	26.4	34.2	42.2	50.3	58.2	65.7	72.6	78.6	83.6	87.7	90.6	92.5	93.2
75	0.58	0.59	0.76	2.37	5.44	10.2	16.0	20.8	25.9	31.0	36.1	40.9	45.4	49.2	52.4	54.9	56.9	58.1	58.6
80	0.58	0.58	0.60	0.79	1.77	3.48	5.94	8.61	11.4	14.1	16.7	19.4	22.0	24.4	26.4	27.9	29.0	29.7	30.0
85	0.58	0.57	0.58	0.59	0.61	0.66	0.81	1.13	1.55	2.04	2.63	3.22	3.80	4.40	4.97	5.44	5.80	6.04	6.17
90	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54

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Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:	DIM.: 0.130 x 0.095 x 0.080	SERIAL No.: 0
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	0.56	0.56	0.56	0.56	0.55	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.64	0.65	0.66	0.67	0.69	
-85	0.72	0.72	0.71	0.70	0.68	0.67	0.70	0.69	0.67	0.66	0.65	0.65	0.64	0.65	0.65	0.66	0.68	0.69	
-80	14.2	13.8	13.0	11.9	10.5	9.08	8.23	7.11	5.83	4.47	3.20	2.03	1.33	0.98	0.73	0.68	0.68	0.69	
-75	42.0	41.1	39.6	37.4	34.7	31.4	28.0	24.2	20.6	17.1	13.3	9.26	5.61	3.03	1.49	0.76	0.69	0.69	
-70	73.3	71.8	69.2	65.8	61.4	56.5	51.3	45.6	39.4	32.8	26.4	20.3	13.4	7.49	3.45	1.26	0.70	0.69	
-65	110	107	104	98.5	92.2	85.2	77.6	69.2	60.1	50.6	41.0	31.5	22.6	13.8	6.55	2.25	0.72	0.69	
-60	150	147	142	135	126	117	107	95.6	83.2	70.3	57.2	44.0	31.8	20.9	10.5	3.67	0.75	0.69	
-55	193	190	183	174	162	151	139	124	108	91.5	74.6	57.7	41.7	27.7	15.2	5.46	0.92	0.69	
-50	221	219	215	209	202	185	168	152	135	114	92.7	72.2	52.2	34.7	20.0	7.47	1.21	0.69	
-45	316	295	255	228	229	228	211	175	157	137	113	86.5	63.2	41.9	24.4	9.64	1.56	0.69	
-40	390	363	346	337	312	270	249	229	175	160	138	103	74.1	49.0	28.6	11.8	1.99	0.69	
-35	516	510	494	424	385	379	318	264	225	185	163	120	84.2	55.9	32.7	14.0	2.41	0.69	
-30	660	602	538	551	535	438	411	332	285	223	189	146	93.1	62.7	36.4	16.1	2.85	0.69	
-25	757	749	725	638	622	584	467	429	339	281	211	164	107	68.9	39.8	18.0	3.25	0.69	
-20	874	805	806	774	691	680	571	502	414	335	246	186	118	74.3	42.8	19.5	3.62	0.69	
-15	1003	982	920	892	774	736	674	564	481	391	282	210	127	78.6	45.1	20.8	3.93	0.69	
-10	1021	1013	997	972	873	794	744	624	540	441	314	226	137	81.7	46.9	21.7	4.17	0.69	
-5	1037	1028	1011	983	926	852	797	675	593	484	341	239	147	83.6	48.0	22.3	4.32	0.69	
0	1054	1043	1020	988	946	903	840	715	635	520	362	249	152	84.4	48.4	22.5	4.40	0.69	
5	1056	1046	1023	990	947	905	836	714	631	519	364	250	152	84.3	48.3	22.4	4.37	0.69	
10	1045	1036	1016	984	942	900	811	710	611	511	361	249	145	83.2	47.5	22.0	4.26	0.69	
15	1030	1020	1000	968	928	887	766	699	578	491	353	242	137	80.8	46.0	21.1	4.07	0.69	
20	1008	996	977	940	894	842	728	678	554	450	332	223	129	77.0	43.9	19.9	3.80	0.69	
25	917	938	924	869	832	754	705	618	533	407	292	197	119	72.0	41.1	18.3	3.47	0.69	
30	849	840	807	792	752	703	642	556	491	379	266	182	99.7	66.0	37.9	16.4	3.10	0.69	
35	703	718	736	734	675	609	541	506	419	325	236	148	90.3	59.1	34.3	14.4	2.68	0.69	
40	635	641	618	581	544	510	473	401	359	271	192	126	80.6	52.0	30.4	12.2	2.25	0.69	
45	443	464	473	468	452	398	361	330	262	210	147	95.6	69.1	44.8	26.3	10.1	1.79	0.69	
50	301	321	329	320	314	307	262	232	198	162	110	81.4	57.0	37.7	21.4	8.04	1.40	0.69	
55	236	247	251	235	198	194	193	173	144	110	86.5	65.0	46.1	30.7	15.9	6.18	1.06	0.69	
60	177	174	169	163	156	151	139	124	99.1	83.6	66.2	49.7	35.9	23.4	11.2	4.57	0.83	0.69	
65	133	132	129	123	117	108	97.0	85.8	73.4	60.3	47.9	36.7	26.4	14.8	7.60	3.12	0.75	0.69	
70	93.1	91.7	89.1	85.4	80.6	74.4	66.7	58.3	49.7	41.1	32.9	24.3	14.8	8.76	4.89	1.81	0.71	0.69	
75	58.3	57.3	55.5	53.1	49.9	46.1	41.1	35.9	30.5	24.2	16.9	10.9	7.48	5.00	2.67	0.96	0.69	0.69	
80	29.8	29.2	28.3	27.0	25.3	23.5	20.1	16.6	13.0	9.69	6.91	5.08	3.70	2.13	1.03	0.69	0.68	0.69	
85	6.40	6.50	6.47	6.29	5.96	5.55	4.62	3.77	2.97	2.30	1.70	1.16	0.79	0.66	0.64	0.66	0.67	0.69	
90	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.57	0.59	0.61	0.63	0.65	0.67	0.69	

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: