

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	908.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	99.5V x 100.1H
	At 50% of Imax	59.4V x 59.8H
	At 90% of Imax	28.9V x 28.7H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	900.2 lumens per klm.
	To 50% of Imax	569.3 lumens per klm.
	To 90% of Imax	178.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

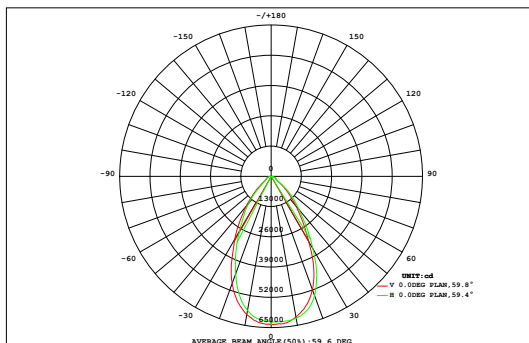
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm		
NAME: ST 500 STD CR 30 50 8 060	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:165.90lm/W	
MODEL	ST 500 STD CR 30 50 8 060	Imax(cd)	63668
NOMINAL POWER(W)	422.5	AVAILABILITY(%)	90.0
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	63053
NOMINAL FLUX(lm)	70091.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	70091
TEST VOLTAGE(V)	230	θ @50% (H,V)	60,59DEG

		AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
VERTICAL (DEG)	90	0.22	1.17	3.04	5.17	6.60	8.18	10.3	12.8	13.0	12.9	12.6	10.4	7.83	5.53	3.82	2.22	0.84	0.15	117	0.00	
	80	0.45	3.17	8.48	14.6	21.5	28.1	32.6	36.2	38.1	37.6	34.9	31.1	27.3	20.2	11.7	6.58	2.58	0.34	355	0.00	
	70	0.71	5.41	14.0	25.2	38.5	45.8	48.6	55.5	62.7	62.6	55.1	47.8	49.5	41.5	22.2	11.4	4.67	0.58	592	0.00	
	60	0.98	7.26	18.3	30.7	46.1	58.4	71.0	101	128	128	101	71.6	62.4	49.1	27.7	15.8	6.30	0.82	924	72.4	
	50	1.20	8.84	21.2	35.6	53.9	101	212	325	394	392	322	211	99.9	51.9	30.8	18.5	7.70	1.03	2288	1786	
	40	1.37	9.98	24.2	40.9	86.9	237	446	645	779	776	629	424	231	84.0	35.9	20.5	8.82	1.21	4482	4161	
	30	1.51	10.8	26.8	48.0	150	385	704	1076	1338	1351	1096	693	365	147	44.2	22.8	9.61	1.33	7469	7211	
		1.61	11.3	28.5	58.5	206	513	960	1455	1743	1752	1486	983	491	200	55.9	25.2	10.1	1.42	9980	9751	
		1.65	11.5	29.6	67.0	237	584	1095	1614	1871	1848	1634	1145	576	237	65.0	27.1	10.4	1.46	11055	10840	
		1.65	11.5	29.4	66.2	230	560	1040	1527	1802	1848	1617	1119	569	235	63.6	27.2	10.4	1.46	10758	10538	
		1.60	11.2	27.7	57.1	188	460	834	1253	1532	1568	1329	881	469	192	52.8	25.7	10.2	1.41	8894	8656	
	-30	1.51	10.7	25.6	46.3	127	330	588	858	1055	1070	886	601	335	126	42.2	23.5	9.72	1.32	6137	5858	
-40	1.37	9.85	23.2	38.1	70.7	184	353	511	611	616	520	362	185	66.9	36.0	21.2	8.96	1.19	3621	3254		
-50	1.19	8.57	20.6	32.6	53.8	85.4	143	220	273	276	225	142	77.6	48.8	31.7	19.0	7.86	1.01	1667	925		
-60	0.96	6.94	17.1	29.2	55.9	68.8	65.0	78.2	89.9	89.4	76.4	62.4	57.5	45.8	28.0	16.4	6.35	0.80	795	0.00		
-70	0.69	5.29	12.1	22.5	44.7	53.3	47.2	55.0	62.2	61.3	53.1	45.8	44.4	35.8	22.0	12.2	4.56	0.56	583	0.00		
-80	0.43	2.97	6.93	11.1	17.8	24.0	27.3	31.3	33.3	33.4	31.4	26.2	21.4	16.1	12.1	7.11	2.44	0.32	306	0.00		
-90	0.18	0.91	1.94	2.89	3.54	4.76	6.08	7.24	7.23	7.22	7.14	5.66	4.38	3.44	2.76	1.62	0.69	0.13	67.8	0.00		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90	
Φ t	19.3	137	339	632	1638	3731	6683	9861	11833	11930	10115	6863	3673	1606	588	304	122	16.6	70091	---		
Φ a	0.00	0.00	0.00	0.00	992	3211	6242	9425	11392	11493	9686	6435	3179	999	0.00	0.00	0.00	0.00	---	63053		

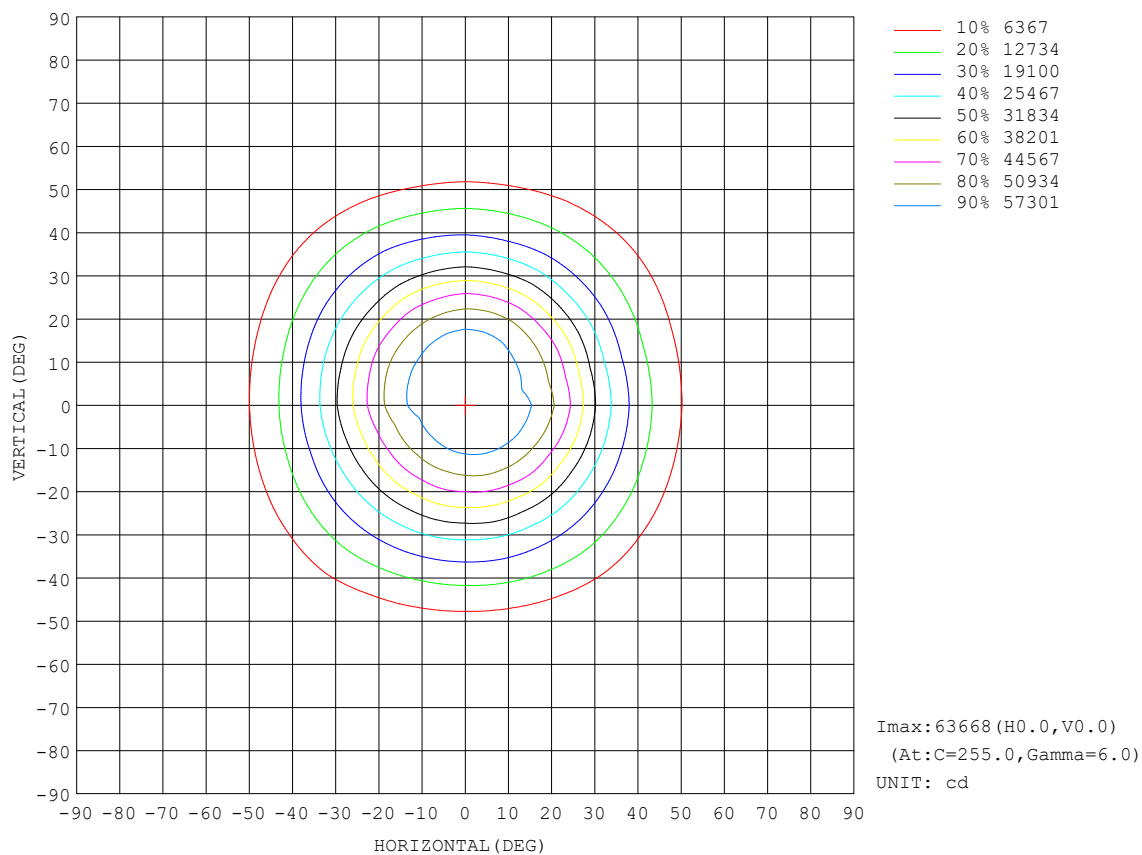
one-half-peak spread: U:27.5,D:25.2 , L:27.9,R:25.5 NEMA Beam Type: Type 6 x 5 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm		
NAME: ST 500 STD CR 30 50 8 060	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

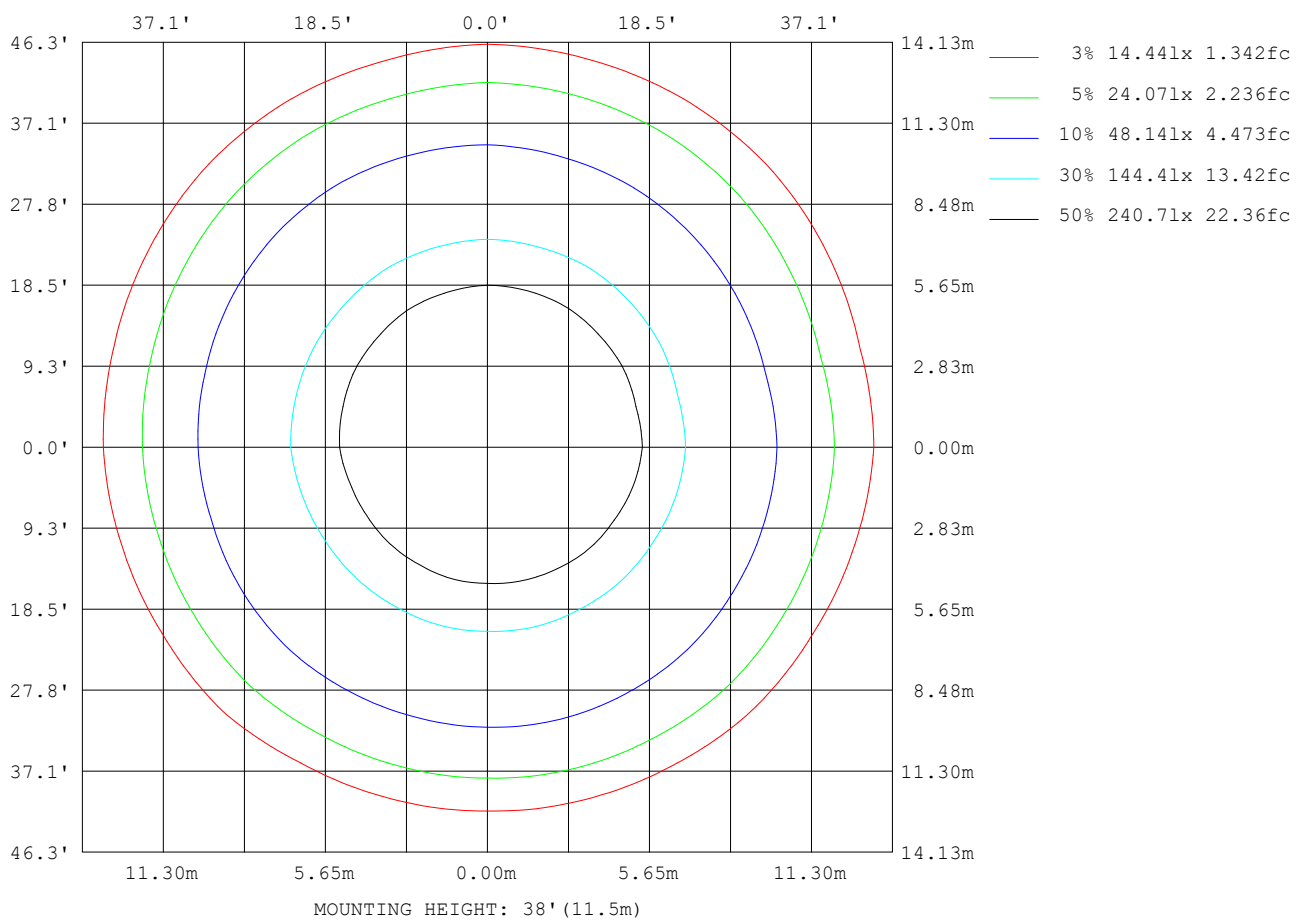


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm		
NAME: ST 500 STD CR 30 50 8 060	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

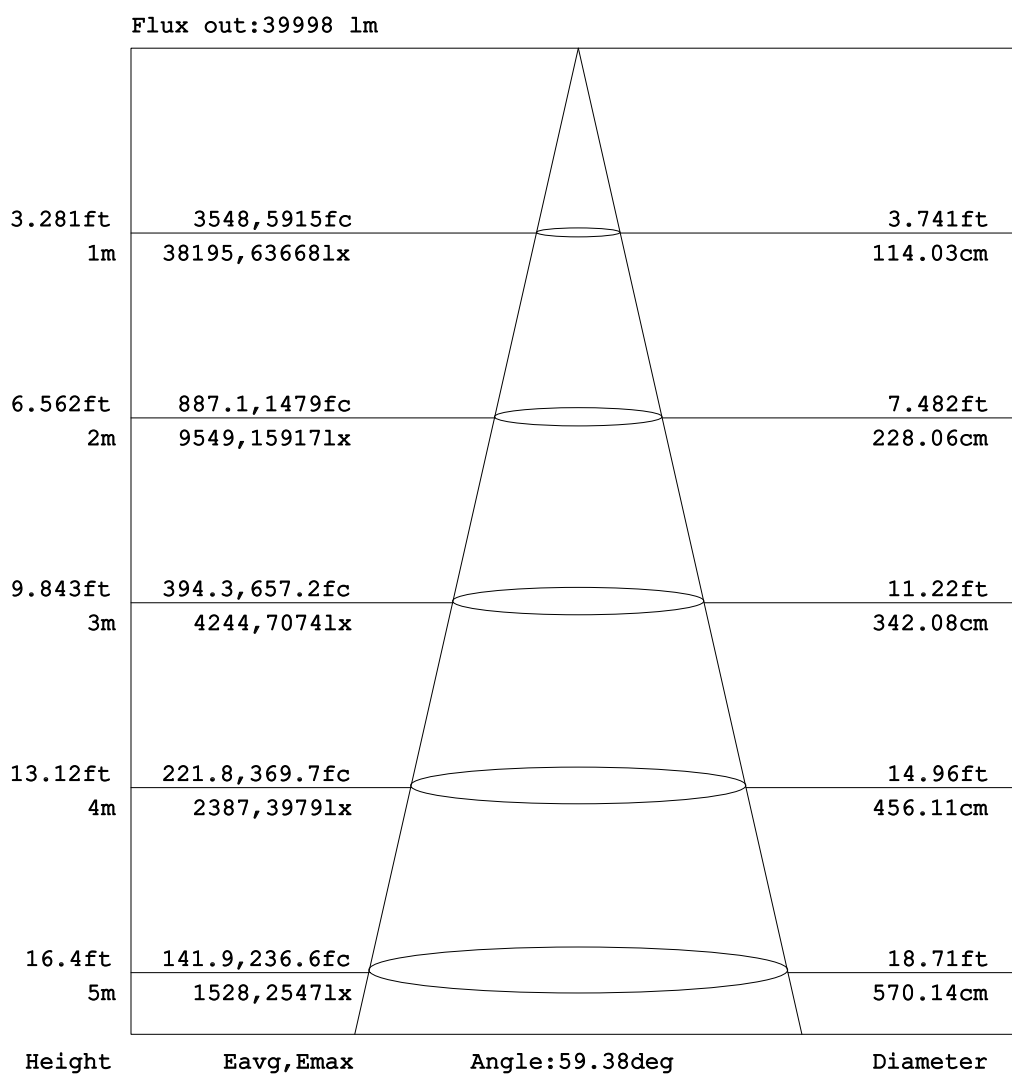


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm		
NAME: ST 500 STD CR 30 50 8 060	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

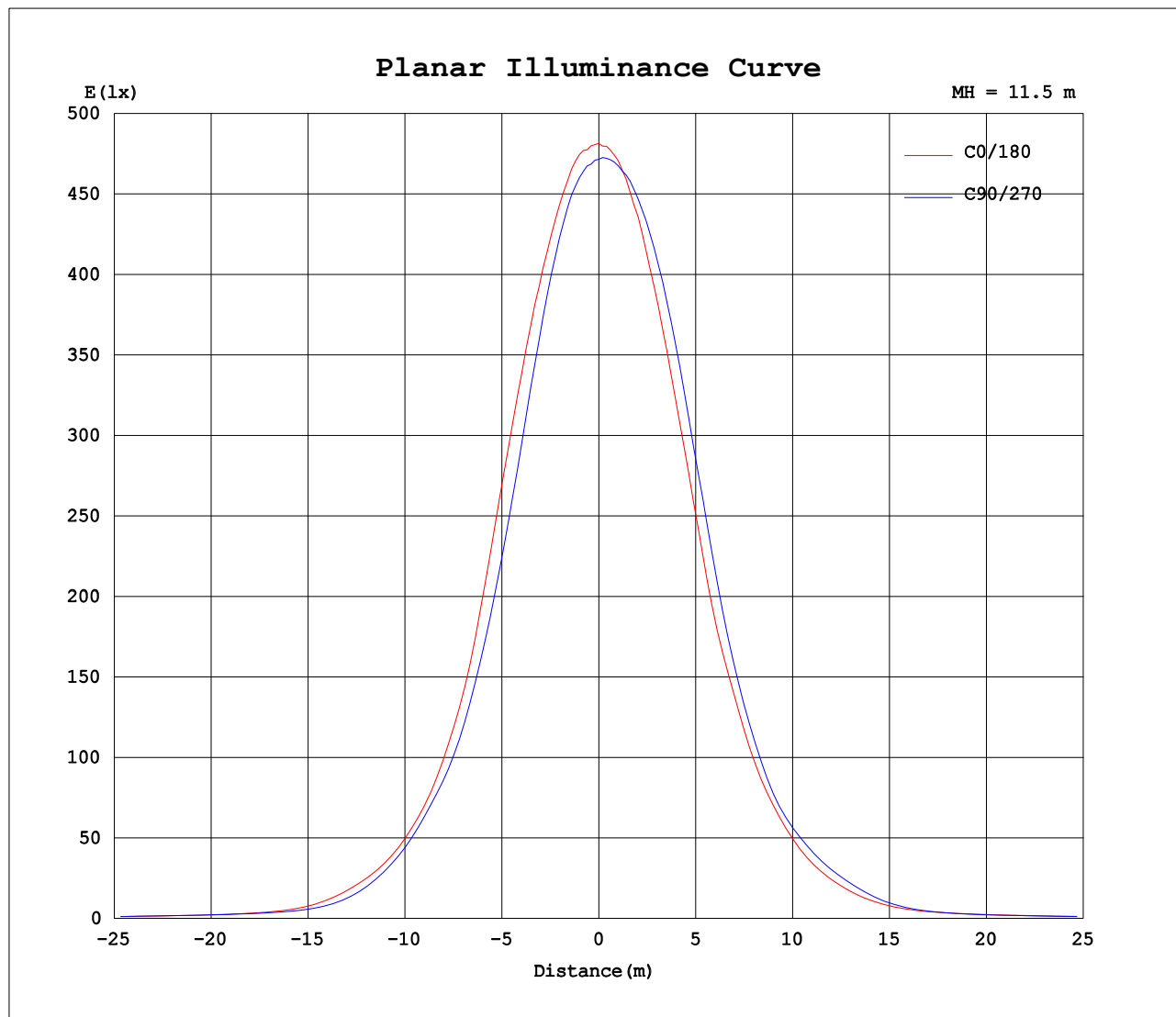


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm																		
NAME: ST 500 STD CR 30 50 8 060									TYPE:					WEIGHT:				
DIM.:									SPEC.:					SERIAL No.:				
MFR.:									SUR.:					PROTECTION ANGLE:				

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
-90	2.80	2.54	2.29	2.04	1.97	1.90	1.84	1.81	1.78	1.76	1.75	1.74	1.74	1.74	1.74	1.75	1.78	1.82	1.86
-85	2.80	5.80	8.26	11.0	12.6	13.6	14.6	14.9	14.3	13.0	14.3	15.5	16.9	17.8	18.2	18.3	18.4	18.1	17.7
-80	2.80	9.04	15.6	23.1	28.7	34.0	37.2	38.1	39.3	40.5	44.9	48.8	52.0	57.5	62.7	66.9	67.2	67.4	67.0
-75	2.80	12.6	23.5	35.8	48.2	54.7	55.9	61.0	67.8	76.9	88.6	95.8	96.6	101	105	107	109	109	109
-70	2.80	16.1	31.4	52.3	67.9	72.4	80.0	94.3	114	141	158	156	141	137	142	147	151	153	154
-65	2.80	19.7	39.6	68.0	81.4	91.1	109	127	160	211	246	222	184	169	179	189	201	213	224
-60	2.80	23.2	48.5	79.2	93.1	116	132	148	197	259	301	258	217	196	208	218	228	236	243
-55	2.80	26.6	57.0	86.8	109	135	148	157	209	262	304	276	245	222	239	252	266	277	283
-50	2.80	29.7	64.2	94.6	129	149	161	171	206	252	292	295	278	285	328	379	423	453	462
-45	2.80	32.6	70.1	103	141	160	174	185	201	247	288	318	373	488	606	728	826	893	916
-40	2.80	35.2	74.8	114	149	170	186	201	213	255	318	456	658	850	1043	1216	1346	1439	1476
-35	2.80	37.5	79.5	124	156	180	199	216	240	295	464	723	1008	1277	1533	1754	1914	2014	2047
-30	2.80	39.7	84.6	130	162	189	212	233	278	408	679	1017	1374	1721	2010	2274	2508	2678	2732
-25	2.80	41.5	89.2	134	166	199	224	254	336	560	909	1311	1743	2115	2511	2915	3259	3499	3583
-20	2.80	42.9	92.9	138	170	210	234	278	412	713	1121	1599	2061	2553	3107	3624	4048	4364	4455
-15	2.80	43.9	96.1	141	174	219	244	302	490	856	1306	1844	2386	3018	3688	4312	4778	5112	5272
-10	2.80	44.6	98.5	143	177	226	253	324	559	969	1468	2042	2709	3428	4194	4846	5331	5685	5852
-5	2.80	44.9	100	144	179	232	261	342	608	1047	1591	2220	2977	3764	4592	5222	5696	5990	6155
0	2.80	44.9	101	144	180	237	266	351	633	1086	1652	2330	3132	4017	4897	5576	6035	6296	6367
5	2.80	44.9	101	144	179	235	261	343	626	1076	1644	2320	3098	3987	4884	5549	5979	6217	6254
10	2.80	44.7	99.4	143	177	232	255	326	590	1026	1568	2220	2964	3801	4703	5389	5828	6081	6189
15	2.80	44.1	97.2	141	174	227	248	303	525	940	1432	2039	2726	3468	4322	5009	5523	5820	5955
20	2.80	43.1	94.2	138	170	220	241	279	445	821	1259	1814	2397	3021	3741	4442	4951	5291	5459
25	2.80	41.7	90.2	135	166	211	236	258	369	671	1069	1535	2026	2545	3084	3691	4163	4470	4640
30	2.80	40.0	85.4	131	161	199	229	242	303	512	858	1230	1664	2058	2475	2879	3229	3482	3588
35	2.80	37.9	80.0	126	156	185	218	230	260	370	619	946	1276	1621	1918	2169	2393	2563	2642
40	2.80	35.6	74.9	119	149	172	203	219	233	279	388	642	919	1175	1423	1616	1744	1824	1846
45	2.80	33.0	69.6	110	141	163	186	205	217	243	283	351	543	769	959	1112	1224	1302	1336
50	2.80	30.1	64.1	99.4	133	153	171	189	206	227	249	268	294	376	505	625	720	793	828
55	2.80	27.0	57.5	88.7	121	142	159	174	195	213	232	232	232	238	265	304	346	375	390
60	2.80	23.6	49.6	79.0	103	129	146	161	181	201	213	206	200	199	209	218	230	241	250
65	2.80	20.1	40.7	68.1	87.0	108	129	145	162	181	191	185	176	174	182	189	198	208	217
70	2.80	16.8	32.4	53.9	72.3	84.4	102	118	132	150	159	158	155	154	156	159	165	171	176
75	2.80	13.5	24.4	37.7	54.5	66.5	73.9	80.3	88.4	97.6	108	115	117	121	122	123	123	123	122
80	2.80	10.2	17.1	24.5	34.0	44.0	53.9	56.1	56.9	57.4	61.1	64.8	67.9	74.1	80.4	86.2	88.7	90.1	90.8
85	2.80	6.96	10.7	14.0	18.0	22.5	27.3	28.9	30.0	30.3	31.4	32.3	32.8	36.5	40.8	45.3	43.5	40.8	37.7
90	2.80	3.67	4.55	5.43	5.52	5.60	5.69	5.59	5.48	5.38	5.41	5.44	5.48	5.61	5.75	5.88	5.81	5.74	5.67

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:1.970A P:422.5W PF:0.9900 Lamp Flux:70091.3x1 lm																		
NAME: ST 500 STD CR 30 50 8 060									TYPE:					WEIGHT:				
DIM.:									SPEC.:					SERIAL No.:				
MFR.:									SUR.:					PROTECTION ANGLE:				

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	
-90	1.84	1.83	1.81	1.83	1.85	1.87	1.90	1.92	1.94	1.98	2.02	2.06	2.11	2.15	2.20	2.24	2.28	2.33	
-85	18.1	18.2	18.0	17.2	16.2	14.9	14.4	13.7	12.7	13.1	13.0	12.2	10.7	9.47	7.72	5.64	4.29	2.33	
-80	67.4	67.4	67.4	61.5	54.8	47.7	45.1	42.0	39.5	42.5	42.6	38.2	30.1	23.6	18.0	11.6	6.29	2.33	
-75	110	110	109	104	95.4	86.7	83.2	76.2	69.0	68.8	69.2	67.8	56.1	41.5	29.2	18.5	8.99	2.33	
-70	153	151	148	143	137	135	137	134	122	106	95.3	87.1	76.1	61.4	42.2	25.7	12.0	2.33	
-65	210	194	181	173	165	169	181	185	168	144	127	111	92.9	77.2	55.9	33.1	15.0	2.33	
-60	232	220	208	200	190	195	210	228	202	169	146	131	112	90.5	68.1	40.6	18.3	2.33	
-55	275	262	247	233	218	222	230	236	214	186	157	144	128	105	78.5	48.0	21.5	2.33	
-50	455	425	376	317	273	259	255	242	217	191	169	154	139	118	88.0	54.7	24.5	2.33	
-45	905	846	746	619	479	342	290	257	223	195	181	165	147	127	97.3	60.8	27.4	2.33	
-40	1462	1386	1256	1086	880	658	420	293	239	207	194	176	155	134	106	66.0	30.0	2.33	
-35	2025	1939	1787	1572	1313	1045	733	441	277	225	205	188	163	140	113	70.9	32.3	2.33	
-30	2702	2543	2299	2027	1744	1399	1050	686	388	254	217	198	172	146	118	75.7	34.4	2.33	
-25	3553	3351	3010	2600	2149	1756	1329	938	554	305	231	208	183	150	122	79.8	36.2	2.33	
-20	4441	4210	3822	3266	2663	2088	1615	1149	730	382	250	217	193	154	125	83.4	37.6	2.33	
-15	5245	4993	4595	3958	3165	2470	1860	1334	883	475	273	226	203	158	127	86.3	38.7	2.33	
-10	5827	5611	5153	4539	3709	2814	2073	1492	997	560	299	234	210	161	129	88.4	39.5	2.33	
-5	6151	5970	5575	4950	4106	3073	2256	1603	1072	621	320	242	216	163	130	89.6	39.9	2.33	
0	6346	6137	5760	5183	4327	3222	2352	1654	1105	653	333	248	221	164	130	90.0	40.0	2.33	
5	6083	5944	5569	5022	4205	3129	2288	1607	1077	637	327	242	215	162	129	89.5	39.9	2.33	
10	6024	5829	5448	4835	3976	2918	2129	1503	1011	592	311	233	207	160	128	88.1	39.5	2.33	
15	5862	5603	5134	4469	3595	2665	1933	1362	914	522	287	223	198	156	127	85.9	38.8	2.33	
20	5358	5076	4555	3873	3053	2323	1702	1207	803	439	261	212	188	153	124	83.1	37.8	2.33	
25	4525	4232	3765	3137	2480	1918	1445	1031	666	357	237	199	177	148	121	79.7	36.4	2.33	
30	3487	3247	2896	2422	1953	1557	1181	841	509	286	217	188	167	144	117	76.0	34.7	2.33	
35	2560	2371	2103	1816	1525	1223	931	619	353	240	201	179	158	138	111	71.8	32.8	2.33	
40	1793	1691	1553	1367	1145	914	637	372	264	210	188	169	151	132	103	67.4	30.5	2.33	
45	1298	1221	1108	958	769	537	337	277	235	195	175	160	144	125	94.0	62.5	27.9	2.33	
50	798	729	631	517	390	298	274	261	229	193	163	150	135	114	86.6	56.1	25.1	2.33	
55	372	341	302	266	236	236	248	262	229	190	152	140	124	99.6	79.6	48.9	22.1	2.33	
60	241	230	217	206	196	206	229	253	224	182	144	126	107	86.9	71.1	41.3	18.8	2.33	
65	208	198	188	180	172	180	203	220	198	157	127	105	86.7	76.0	58.1	34.4	15.4	2.33	
70	170	163	156	151	146	147	159	162	147	120	95.9	78.6	69.6	60.8	43.3	27.1	12.4	2.33	
75	121	119	117	116	114	111	110	103	90.2	75.8	64.4	55.9	50.9	42.0	31.5	19.7	9.59	2.33	
80	89.7	87.9	85.6	81.4	76.2	70.2	64.2	58.3	52.4	47.2	42.1	38.0	33.6	27.4	19.9	12.6	6.91	2.33	
85	40.2	42.3	43.6	40.2	36.8	33.7	30.7	27.4	23.9	22.8	21.5	20.0	16.5	12.9	9.57	6.89	4.71	2.33	
90	5.59	5.50	5.41	5.13	4.84	4.55	4.38	4.22	4.05	3.85	3.65	3.45	3.24	3.04	2.83	2.66	2.50	2.33	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-14

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:16.500m [K=1.0000]
Remarks: