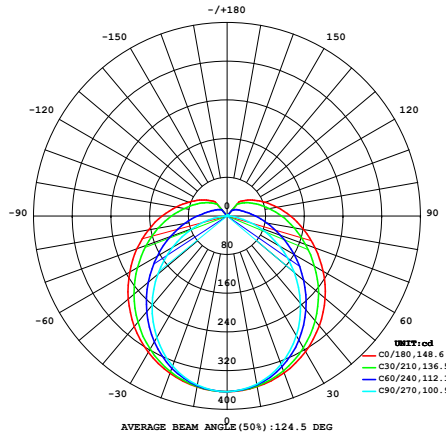


LAMP PHOTOMETRIC REPORT

MODEL: 93M20DL1240/BL		
POWER: 12W	VOLTAGE: 48V	WORKING VOLTAGE: 48V
MANUFACTURER: Elmark Industries JSC		

TOTAL FLUX: 1461.4 lm



γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
10	358.4	355.8	353.3	355.7	358.9	357.3	355.0	357.2	0- 10	34.35	34.35	2.35
20	345.2	336.1	326.6	335.7	346.1	338.8	330.2	338.3	10- 20	98.29	132.6	9.08
30	324.2	305.9	286.3	305.3	325.6	309.9	290.9	308.4	20- 30	149.0	281.7	19.3
40	296.9	268.6	236.3	267.9	298.7	273.4	241.5	271.0	30- 40	180.9	462.5	31.6
50	264.7	227.7	181.4	226.8	266.8	233.1	186.9	229.4	40- 50	192.0	654.5	44.8
60	229.5	186.3	125.6	185.4	232.7	192.1	130.6	187.4	50- 60	184.1	838.6	57.4
70	193.9	147.9	71.32	147.3	198.4	153.9	76.28	148.1	60- 70	161.8	1000	68.5
80	161.1	115.0	24.01	114.1	165.0	120.1	27.76	114.3	70- 80	131.6	1132	77.5
90	131.4	88.69	0.8544	86.65	134.4	92.00	0.9761	87.68	80- 90	101.1	1233	84.4
100	105.6	68.31	1.118	65.71	107.1	69.81	0.9682	66.82	90-100	76.47	1310	89.6
110	83.97	52.95	1.543	50.78	84.61	53.78	1.268	36.96	100-110	57.23	1367	93.5
120	66.01	41.74	1.793	39.68	66.30	41.84	1.638	40.09	110-120	42.20	1409	96.4
130	51.24	32.54	2.136	31.21	51.07	32.64	2.046	31.58	120-130	30.22	1439	98.5
140	38.82	23.03	2.497	24.70	38.36	25.58	2.506	22.16	130-140	20.20	1459	99.9
150	0	0	0	0	0	0	0	0	140-150	1.947	1461	100
160	0	0	0	0	0	0	0	0	150-160	0	1461	100
170	0	0	0	0	0	0	0	0	160-170	0	1461	100
180	0	0	0	0	0	0	0	0	170-180	0	1461	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 10 November 2022

γ Range: 0 - 140DEG
 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

MODEL: 93M20DL1240/BL		
POWER: 12W	VOLTAGE: 48V	WORKING VOLTAGE: 48V
MANUFACTURER: Elmark Industries JSC		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363
5	362	362	362	361	361	361	361	361	360	360	360	361	361	361	361	362	362	362	362
10	358	358	358	357	356	355	355	354	353	353	353	354	354	355	356	357	358	358	359
15	353	353	352	350	348	347	345	343	342	342	342	343	344	346	348	350	352	353	353
20	345	345	343	341	338	335	332	329	327	327	327	329	331	334	337	340	343	345	346
25	336	335	332	329	325	320	315	312	309	308	308	311	315	319	324	329	333	335	337
30	324	323	320	315	309	303	297	291	288	286	287	291	295	302	309	315	320	324	326
35	311	310	306	300	292	284	276	269	264	262	263	268	275	283	291	300	306	311	313
40	297	295	290	283	274	264	254	245	238	236	238	244	252	263	273	283	291	296	299
45	281	279	274	265	254	242	230	220	212	209	211	219	229	241	254	265	274	280	283
50	265	262	256	247	235	221	207	194	185	181	184	193	205	220	234	247	257	264	267
55	247	245	238	228	214	199	183	169	157	154	157	167	182	198	214	228	239	246	250
60	229	227	220	209	195	178	160	144	130	126	129	143	159	177	194	209	221	229	233
65	211	209	202	190	175	158	139	120	104	98.0	103	119	137	157	175	191	203	212	216
70	194	192	184	173	157	139	118	97.8	79.6	71.3	78.2	96.1	117	138	157	174	186	195	198
75	177	175	167	156	140	121	99.7	77.6	56.8	46.2	55.0	75.5	97.9	120	140	157	169	178	182
80	161	159	152	140	124	106	83.9	60.3	37.3	24.0	34.9	57.9	81.9	104	124	141	153	162	165
85	146	144	137	126	110	91.9	70.3	46.6	22.7	7.19	19.8	43.6	67.7	90.0	109	126	138	146	149
90	131	130	123	113	97.5	79.9	59.1	36.4	14.1	0.85	11.1	32.9	55.9	77.4	95.9	112	123	131	134
95	118	116	110	100	86.4	69.4	49.9	29.1	10.2	0.92	7.73	25.7	46.5	66.5	84.2	99.1	110	117	120
100	106	104	98.1	89.1	76.2	60.5	42.6	24.2	8.70	1.12	6.71	21.3	39.5	57.6	73.9	87.6	97.3	104	107
105	94.1	92.9	87.6	79.0	67.1	52.9	37.0	21.1	8.18	1.35	6.54	18.5	34.1	50.3	65.0	77.4	86.7	92.7	95.2
110	84.0	82.5	77.8	70.0	59.3	46.6	32.7	19.0	8.05	1.54	6.61	16.6	30.0	44.2	57.4	68.5	77.0	82.4	84.6
115	74.5	73.2	69.0	62.0	52.6	41.3	29.2	17.4	8.08	1.67	6.69	15.3	26.7	39.0	50.6	60.6	68.1	73.0	75.0
120	66.0	64.9	61.1	54.9	46.7	36.8	26.3	16.2	8.17	1.79	6.53	14.5	24.0	34.6	44.8	53.6	60.3	64.6	66.3
125	58.3	57.3	54.0	48.6	41.4	32.9	23.9	15.2	7.83	1.96	6.13	13.8	21.9	30.8	39.5	47.2	53.0	56.8	58.3
130	51.2	50.4	47.5	42.7	36.4	28.7	20.9	13.5	6.44	2.14	5.95	13.0	20.1	27.5	34.9	41.4	46.5	49.8	51.1
135	44.7	44.1	41.5	37.3	31.5	24.4	17.7	11.9	5.71	2.32	5.82	12.2	18.5	24.7	30.8	36.2	40.5	43.3	44.4
140	38.8	38.2	35.8	32.0	26.0	20.1	15.1	10.5	5.03	2.50	5.66	10.7	16.9	22.2	27.2	31.6	35.1	37.4	38.4
145	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
150	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
155	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
160	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
165	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
170	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
175	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
180	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

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:10 November 2022

γ Range: 0 - 140DEG

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

MODEL: 93M20DL1240/BL		
POWER: 12W	VOLTAGE: 48V	WORKING VOLTAGE: 48V
MANUFACTURER: Elmark Industries JSC		

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363		
5	362	362	362	362	362	362	361	361	361	361	361	362	362	362	362	362	362		
10	359	359	358	358	357	357	356	355	355	355	355	356	357	358	358	358	359		
15	353	353	352	350	349	347	346	345	345	345	346	347	348	350	351	353	353		
20	345	345	343	340	337	335	332	331	330	331	332	334	337	340	342	344	345		
25	336	335	331	328	323	319	315	313	312	313	315	318	322	327	330	333	335		
30	325	323	318	313	307	301	296	292	291	292	295	300	305	312	317	321	324		
35	312	309	304	296	288	281	274	269	267	269	273	279	286	294	301	307	310		
40	297	294	287	278	269	259	250	244	242	244	249	257	266	276	285	291	296		
45	282	277	269	259	248	236	225	218	215	217	223	233	244	257	267	275	280		
50	265	260	251	240	226	213	200	191	187	190	197	209	223	236	248	257	263		
55	248	243	233	220	205	190	175	164	159	162	171	185	201	216	229	239	245		
60	231	225	214	200	184	167	150	137	131	135	146	162	179	196	210	221	227		
65	214	207	196	181	164	145	126	111	103	108	121	140	158	176	191	202	209		
70	197	190	178	163	144	125	103	85.5	76.3	82.1	98.3	119	139	158	173	184	192		
75	180	173	161	146	127	106	83.0	62.2	50.8	58.3	77.6	99.6	121	140	155	168	175		
80	163	157	145	130	110	89.0	65.0	41.9	27.8	37.4	59.3	82.8	104	124	140	152	159		
85	147	141	130	115	95.5	74.3	50.1	26.0	9.64	21.4	44.7	68.8	90.3	110	125	137	144		
90	132	126	115	101	82.8	61.9	38.6	15.7	0.98	11.9	34.0	57.2	78.4	97.0	112	123	129		
95	118	113	102	88.8	71.4	51.6	30.3	10.8	0.81	7.94	26.6	47.8	67.7	85.4	99.2	110	116		
100	105	100	90.2	77.8	61.8	43.8	25.0	8.81	0.97	6.06	19.8	33.5	58.6	75.0	88.3	98.1	104		
105	93.3	88.8	80.1	68.4	53.9	37.8	21.4	8.07	1.12	6.01	17.8	32.4	50.7	65.9	78.1	87.2	92.2		
110	83.2	78.7	70.9	60.3	47.3	33.1	18.9	7.84	1.27	6.31	16.2	29.2	42.2	51.8	69.0	77.3	82.3		
115	73.7	69.7	62.6	53.2	41.6	29.2	17.2	7.68	1.45	6.84	15.4	26.8	38.3	48.4	60.3	68.5	72.9		
120	65.1	61.5	55.2	46.9	36.8	26.1	16.0	7.41	1.64	7.07	14.7	24.7	35.4	44.8	55.8	64.6			
125	57.3	54.1	48.6	41.3	32.6	23.5	15.0	6.65	1.84	6.75	14.0	22.4	31.5	40.2	47.0	55.2	57.1		
130	50.2	47.4	42.6	36.3	29.0	21.4	14.0	5.43	2.05	6.45	12.5	19.7	27.8	35.4	41.8	48.2	46.9		
135	43.6	41.2	37.2	31.9	25.8	19.5	12.9	4.22	2.27	6.35	11.3	16.7	23.3	30.4	36.7	40.7	30.1		
140	37.7	35.7	32.4	28.1	23.1	17.6	11.6	3.67	2.51	6.27	10.3	14.4	19.3	25.1	31.5	35.4	33.6		
145	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		
150	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		
155	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		
160	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		
165	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		
170	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		
175	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		
180	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		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:10 November 2022

γ Range: 0 - 140DEG

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: