

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	596.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	143.1V x 168.8H
	At 50% of Imax	64.3V x 160.1H
	At 90% of Imax	24.4V x 155.5H

Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	956.9 lumens per klm.
	To 50% of Imax	465.6 lumens per klm.
	To 90% of Imax	46.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

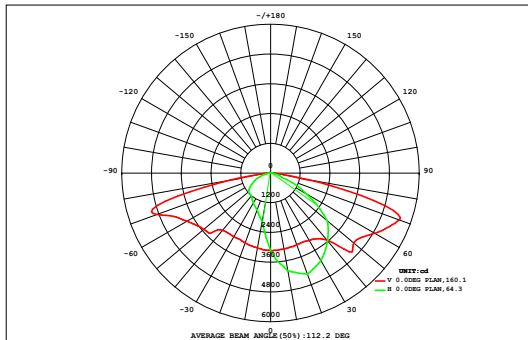
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC



DATA OF LAMP		Eff:138.52lm/W	
MODEL	LED	Imax(cd)	8318
NOMINAL POWER(W)	100	AVAILABILITY(%)	95.7
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	13356
NOMINAL FLUX(lm)	13951.4	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	13951
TEST VOLTAGE(V)	230	θ @50% (H,V)	160,64DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.10	0.35	1.29	2.53	2.67	1.64	1.62	1.74	1.86	1.89	1.86	1.78	2.09	3.74	2.99	1.24	0.44	0.11	30.0	0.00
90	0.10	0.35	1.29	2.53	2.67	1.64	1.62	1.74	1.86	1.89	1.86	1.78	2.09	3.74	2.99	1.24	0.44	0.11	30.0	0.00
80	0.12	2.21	10.6	11.8	9.09	7.56	7.86	8.26	8.80	9.01	8.79	8.55	9.06	12.5	17.0	10.5	2.02	0.15	144	34.8
70	0.24	8.45	39.9	42.7	31.6	29.0	30.4	31.4	32.1	33.1	34.1	33.8	33.7	40.0	57.8	42.5	7.54	0.28	529	484
60	0.54	19.4	73.0	84.4	75.8	70.6	70.4	70.7	70.2	72.9	77.7	79.2	81.5	92.2	106	79.0	18.0	0.53	1142	1139
50	0.90	30.3	89.7	110	113	108	102	99.3	98.9	103	110	118	127	137	132	97.0	29.9	0.87	1606	1604
40	1.30	37.7	94.4	118	126	123	116	113	115	118	126	139	150	154	140	103	38.0	1.23	1814	1813
30	1.63	41.3	89.8	110	121	122	120	123	127	129	133	142	154	151	134	101	41.7	1.52	1842	1841
20	1.78	40.6	78.3	92.9	105	107	112	120	126	128	126	125	133	134	115	90.8	41.2	1.65	1676	1675
10	1.75	36.2	61.9	72.5	82.4	84.2	93.2	102	108	109	105	97.7	95.4	106	89.8	74.5	37.0	1.67	1359	1357
0	1.57	29.7	48.8	55.9	60.1	62.0	67.2	72.4	75.8	76.2	73.8	70.1	67.2	75.1	69.0	60.1	31.3	1.56	998	997
-10	1.33	24.1	40.2	40.2	40.8	42.5	46.7	50.6	53.2	53.9	52.5	49.7	47.1	51.0	49.7	49.4	25.7	1.38	720	718
-20	1.05	19.0	33.5	27.6	29.0	32.5	37.7	41.9	44.7	45.1	43.1	39.8	37.1	36.0	34.6	40.7	20.6	1.16	565	563
-30	0.81	14.4	27.0	19.6	23.3	28.3	33.2	37.0	39.3	39.3	37.4	34.9	33.3	27.9	25.1	33.1	15.5	0.92	470	468
-40	0.57	9.84	21.0	15.4	19.4	25.4	31.3	34.1	35.8	35.9	34.6	33.0	28.9	22.1	19.8	25.4	10.6	0.70	404	394
-50	0.39	5.66	14.1	12.1	15.3	20.8	27.1	29.5	31.0	31.1	30.0	28.3	22.0	16.8	15.6	16.6	5.99	0.47	323	256
-60	0.25	2.46	6.84	8.06	10.0	13.5	17.4	19.6	20.8	20.8	19.7	18.0	14.2	11.2	10.4	7.70	2.68	0.31	204	11.9
-70	0.19	0.88	2.17	3.77	4.84	6.60	8.40	9.31	9.81	9.89	9.45	8.60	6.97	5.74	4.64	2.41	1.00	0.23	94.9	0.00
-80	0.17	0.49	0.82	1.35	1.78	2.27	2.72	2.85	2.89	2.94	2.94	2.84	2.48	2.12	1.47	0.92	0.57	0.20	31.8	0.00
-90	0.17	0.49	0.82	1.35	1.78	2.27	2.72	2.85	2.89	2.94	2.94	2.84	2.48	2.12	1.47	0.92	0.57	0.20	31.8	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	14.7	323	733	828	871	886	925	966	1000	1019	1026	1030	1045	1079	1024	836	329	14.9	13951	---
Φ a	5.96	310	719	790	824	841	880	921	953	972	980	989	1000	1032	998	822	315	5.25	---	13356

one-half-peak spread: U:28.2,D:36.4 , L:8.3,R:9.9

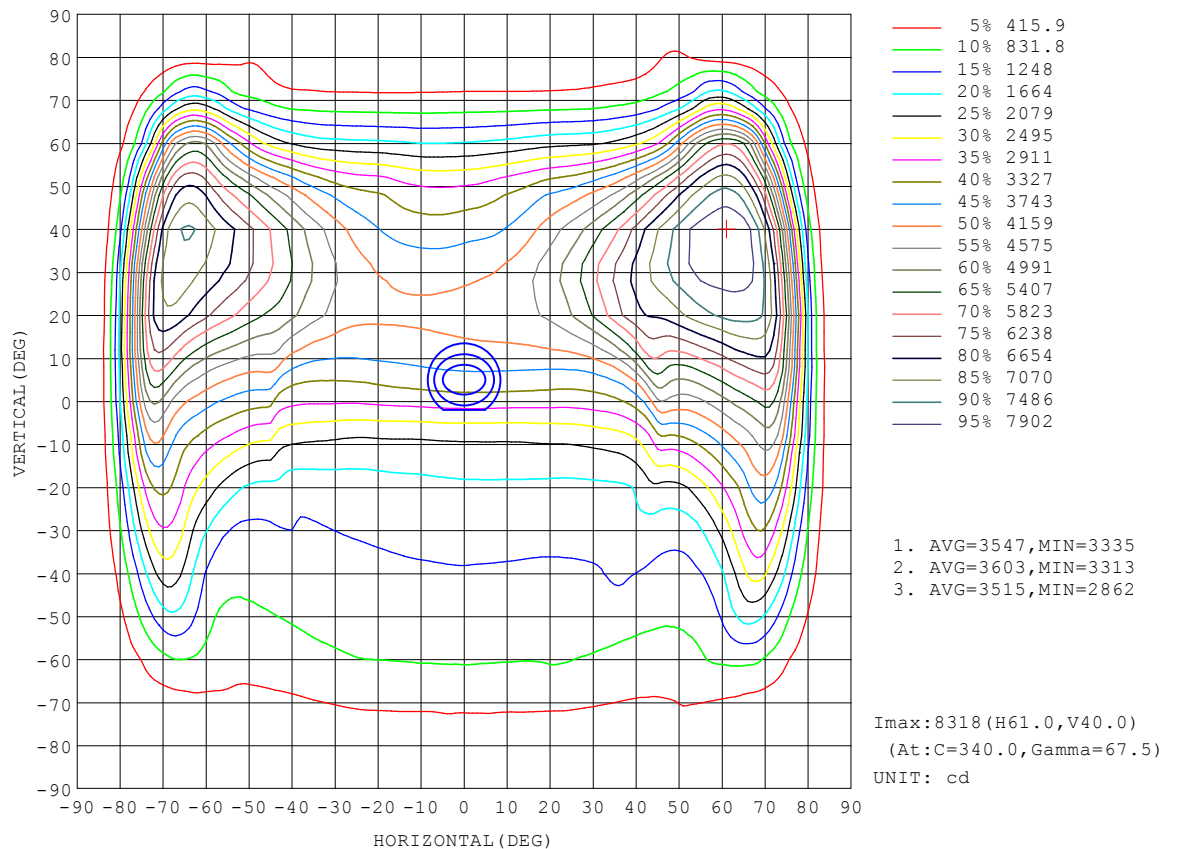
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC

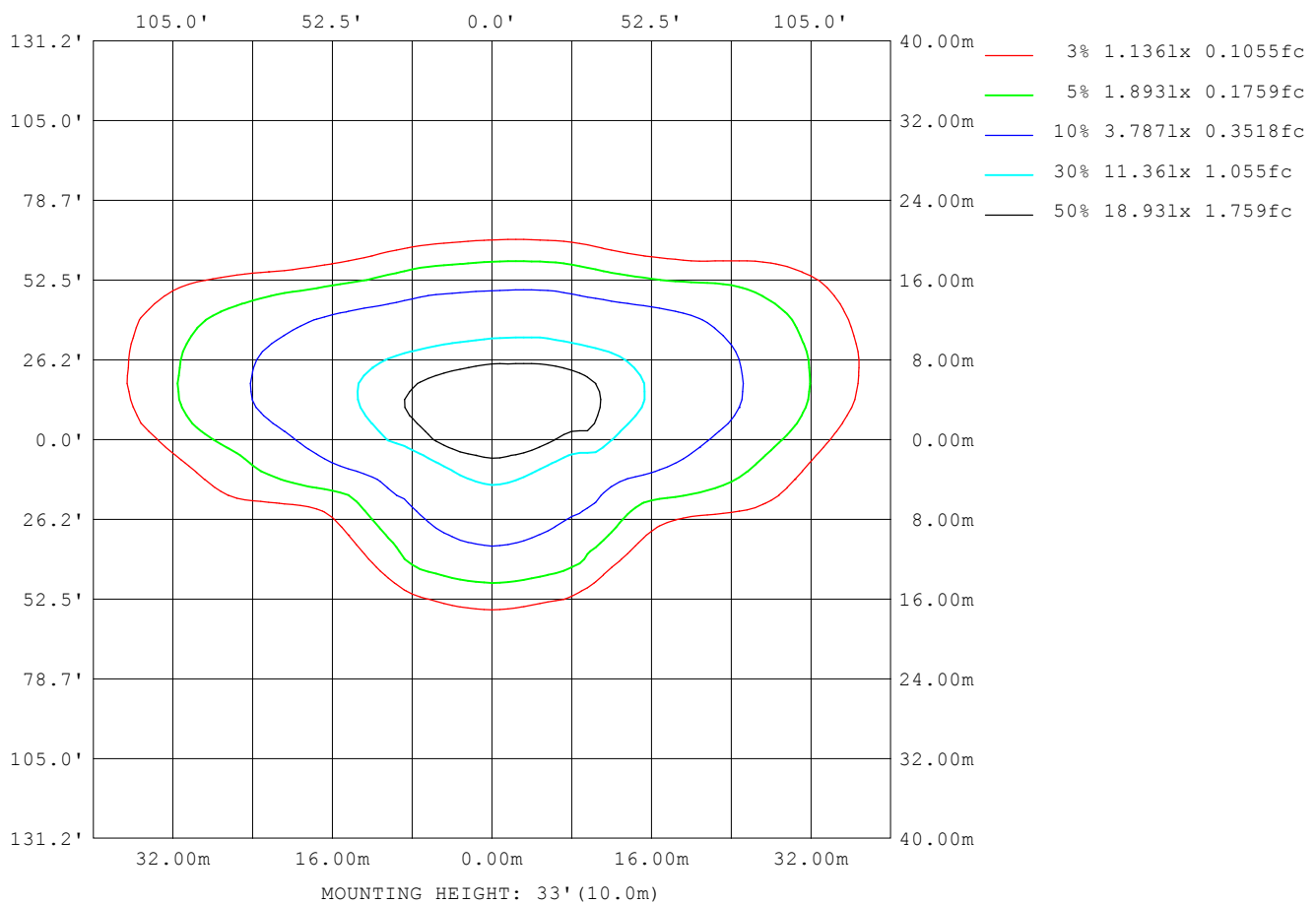


H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

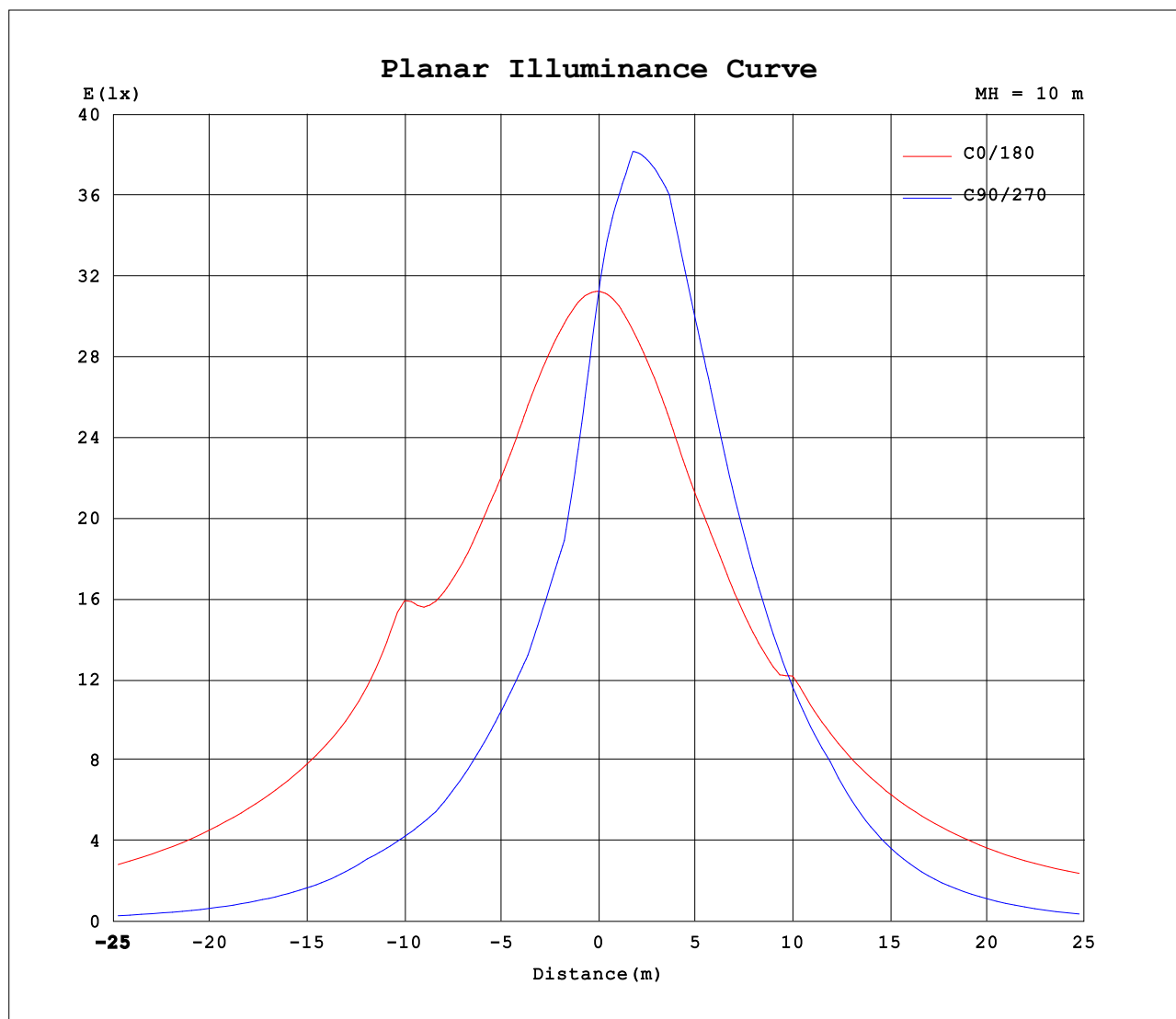
Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

Planar Illuminance Curve

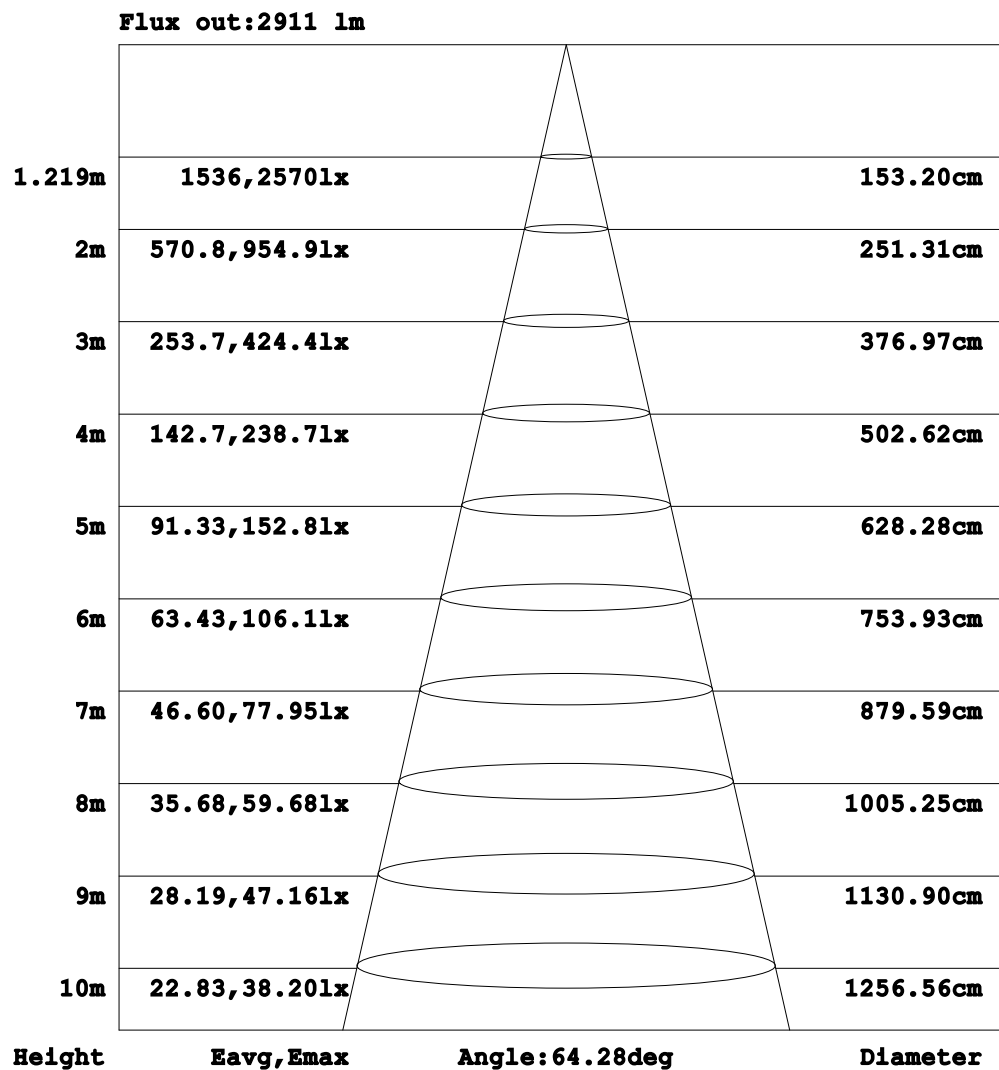


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC



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

H(β) Range: -90 - 90 DEG
H(β) Interval: 1.0 DEG
Test Speed: HIGH
Temperature: 25.3 DEG
Operators:
Test Date: 2023-10-26

V(B) Range: -90 - 90 DEG
V(B) Interval: 2.0 DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.353
Humidity: 65.0 %
Test Distance: 7.370m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC

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	68.2	66.1	62.5	59.2	57.1	55.6	54.6	53.9	53.7	53.9	54.3	54.7	54.7	54.0	52.8	51.6	50.5	49.7	49.5
-85	67.8	66.7	64.1	62.5	62.2	63.9	70.2	77.4	77.1	79.0	81.8	87.3	90.2	94.2	92.5	91.4	90.8	90.0	90.2
-80	67.3	67.6	66.5	67.5	70.0	76.3	93.6	113	112	117	123	136	143	155	152	151	151	150	151
-75	66.9	69.3	76.3	104	127	152	182	204	194	203	218	241	258	277	282	285	285	291	291
-70	66.4	71.8	91.1	158	214	265	315	340	317	334	359	397	430	460	477	485	485	503	501
-65	66.6	75.4	128	266	414	490	477	435	411	438	472	514	554	602	620	630	637	650	652
-60	66.8	80.6	183	428	714	828	721	576	553	595	640	688	740	814	835	847	864	871	878
-55	67.8	88.0	249	618	1026	1095	826	648	640	684	735	801	875	954	964	968	981	987	996
-50	69.4	99.1	348	904	1494	1495	982	755	772	818	876	969	1078	1164	1156	1150	1156	1160	1174
-45	71.0	112	419	1111	1803	1687	1075	837	836	882	941	1015	1083	1152	1156	1160	1170	1178	1190
-40	73.3	131	525	1422	2266	1974	1215	960	931	979	1037	1085	1090	1135	1156	1174	1192	1205	1214
-35	73.9	147	633	1685	2511	2165	1395	1069	1011	1057	1123	1130	1152	1193	1217	1242	1263	1279	1288
-30	74.9	170	795	2079	2879	2450	1664	1232	1131	1174	1253	1198	1246	1279	1309	1344	1369	1389	1400
-25	72.1	176	898	2332	3098	2630	1924	1491	1321	1323	1309	1285	1327	1352	1382	1416	1438	1461	1477
-20	67.8	185	1053	2711	3426	2901	2315	1879	1607	1546	1393	1417	1450	1462	1491	1523	1542	1570	1593
-15	63.4	204	1187	3045	3657	3091	2598	2223	1954	1884	1657	1652	1656	1650	1669	1692	1705	1730	1747
-10	56.7	232	1388	3545	4003	3377	3022	2739	2476	2390	2052	2004	1966	1931	1935	1945	1949	1970	1979
-5	52.8	225	1474	3835	4316	3675	3364	3115	2894	2808	2430	2371	2339	2309	2325	2337	2346	2372	2382
0	47.6	247	1674	4374	4881	4209	3896	3669	3526	3443	3018	2966	2968	2960	3005	3040	3069	3109	3125
5	44.9	234	1743	4686	5365	4646	4289	4048	3884	3854	3358	3265	3264	3287	3338	3398	3443	3491	3513
10	41.8	252	1891	5142	6093	5432	4953	4705	4524	4517	4055	3831	3780	3790	3848	3871	3916	3966	3998
15	40.6	230	1846	5202	6453	5958	5500	5200	4953	4843	4463	4182	4044	3984	4006	4023	4057	4100	4136
20	38.7	198	1779	5292	6993	6746	6322	5943	5598	5333	5075	4709	4440	4274	4242	4251	4269	4300	4342
25	38.3	193	1724	5203	7065	6988	6588	6232	5884	5557	5223	4831	4525	4312	4218	4184	4175	4193	4234
30	37.6	184	1642	5069	7173	7351	6988	6665	6314	5892	5446	5014	4651	4369	4182	4084	4034	4032	4071
35	37.5	161	1432	4691	6998	7424	7104	6719	6323	5859	5381	4925	4536	4225	4012	3887	3829	3826	3877
40	37.3	127	1118	4125	6736	7533	7276	6801	6338	5809	5285	4790	4362	4008	3756	3592	3521	3515	3586
45	37.3	108	955	3680	6272	7214	6954	6381	5888	5362	4860	4395	4020	3741	3562	3398	3310	3293	3349
50	37.3	80.0	711	3013	5576	6735	6471	5750	5214	4691	4223	3803	3506	3341	3271	3107	2993	2961	2993
55	37.4	66.0	560	2302	4734	6009	5857	4997	4319	3751	3349	3024	2820	2709	2659	2547	2460	2442	2469
60	37.6	44.9	334	1234	3472	4919	4936	3868	2976	2341	2037	1856	1790	1760	1742	1707	1661	1665	1683
65	37.9	42.5	251	921	2468	3595	3594	2753	2085	1648	1427	1315	1268	1247	1232	1210	1186	1191	1207
70	38.3	38.9	126	450	963	1609	1582	1080	747	609	513	504	485	478	469	465	472	481	492
75	38.8	38.1	90.9	288	623	1042	1027	758	595	456	363	349	334	328	323	321	327	333	340
80	39.6	36.9	37.7	44.1	112	191	194	275	366	228	138	116	109	103	103	106	110	110	112
85	40.6	37.9	37.2	39.8	79.8	126	127	174	228	145	90.2	76.4	72.2	68.8	68.5	69.9	72.6	72.7	73.5
90	42.1	39.3	36.3	33.4	30.7	28.0	25.5	23.2	21.2	19.6	18.3	17.5	17.1	16.8	16.6	16.5	16.4	16.3	16.2

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2023-10-26

V(B) Range:-90 - 90DEG

V(B) Interval: 2.0DEG

Test System:EVERFINE GO-2000 SYSTEM V2.0.353

Humidity:65.0%

Test Distance:7.370m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.4633A P:100.7W PF:0.9842 Freq:49.99Hz Lamp Flux:13951.4x1 lm		
NAME: LUX-AL-100-TypeII/III-SCL-PC-C16473	TYPE:LED	WEIGHT:
SPEC.:	DIM.: 0.3*0.25*0.1	SERIAL No.:
MFR.:	SUR.:0.1*0.2	Shielding Angle:SCL-PC

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	50.1	50.8	52.0	53.3	54.7	55.7	56.4	56.2	55.3	54.3	54.1	55.5	58.1	62.0	66.3	70.8	74.6	73.3	
-85	91.4	92.9	94.0	95.2	96.9	95.7	94.2	92.4	92.0	88.7	81.3	76.0	70.7	70.6	72.6	74.5	76.7	73.7	
-80	153	156	157	158	160	156	151	147	147	140	122	107	89.6	83.5	81.9	80.1	79.8	74.3	
-75	294	290	290	287	284	270	255	241	240	257	239	206	172	144	119	95.0	82.9	74.5	
-70	506	491	489	480	469	442	411	383	379	432	413	355	295	234	174	117	87.5	74.7	
-65	650	636	632	639	618	574	538	501	488	519	560	571	546	454	285	164	93.0	75.3	
-60	866	855	845	878	842	772	728	679	651	649	779	893	921	784	450	234	101	76.3	
-55	988	982	977	1000	987	929	847	789	751	750	866	1057	1275	1117	637	297	112	77.6	
-50	1171	1172	1174	1185	1204	1164	1025	956	901	903	996	1302	1806	1616	916	391	128	79.4	
-45	1185	1182	1179	1186	1203	1186	1146	1071	995	983	1091	1428	2043	1985	1172	475	143	80.6	
-40	1205	1197	1187	1189	1202	1220	1328	1244	1137	1102	1232	1618	2399	2539	1556	600	166	82.5	
-35	1280	1270	1257	1250	1254	1267	1342	1372	1251	1213	1379	1843	2641	2838	1809	681	177	82.9	
-30	1391	1380	1362	1341	1332	1337	1363	1565	1421	1379	1598	2180	3006	3288	2188	804	193	83.5	
-25	1472	1464	1451	1432	1422	1430	1455	1619	1647	1619	1891	2457	3202	3562	2471	910	212	80.5	
-20	1594	1590	1584	1568	1558	1571	1591	1701	1986	1979	2331	2872	3496	3974	2897	1068	241	76.0	
-15	1752	1750	1754	1752	1754	1786	1828	1969	2397	2416	2744	3234	3783	4255	3169	1155	234	72.1	
-10	1989	1990	2008	2029	2049	2108	2183	2370	3013	3072	3363	3778	4214	4677	3577	1286	222	66.2	
-5	2380	2371	2379	2396	2412	2467	2553	2786	3545	3618	3831	4192	4580	4986	3904	1395	239	63.2	
0	3125	3106	3095	3085	3077	3136	3239	3535	4502	4395	4515	4853	5200	5537	4315	1496	226	59.6	
5	3517	3497	3473	3444	3435	3483	3644	4066	5116	4840	5006	5332	5673	5972	4632	1584	241	58.4	
10	4012	4007	4004	4022	4032	4179	4548	5294	5827	5609	5827	6160	6504	6657	4986	1613	223	57.9	
15	4160	4176	4206	4277	4414	4681	5141	5789	6176	6156	6428	6721	6965	6957	5150	1627	233	58.5	
20	4381	4428	4509	4661	4987	5435	6029	6530	6700	6976	7330	7562	7656	7408	5394	1649	249	59.2	
25	4285	4368	4513	4741	5100	5578	6152	6651	6943	7284	7615	7788	7824	7425	5236	1538	222	59.8	
30	4142	4278	4518	4861	5270	5794	6336	6834	7309	7748	8041	8127	8076	7451	4998	1370	183	60.7	
35	3940	4075	4322	4669	5066	5552	6089	6647	7207	7704	8067	8199	8119	7271	4696	1233	170	60.5	
40	3637	3771	4029	4383	4761	5191	5718	6367	7053	7637	8106	8308	8184	7001	4242	1026	151	60.2	
45	3415	3557	3789	4080	4362	4723	5180	5788	6491	7146	7693	7990	7754	6473	3583	855	136	58.9	
50	3083	3237	3431	3625	3763	4021	4372	4920	5648	6410	7072	7513	7110	5681	2595	598	112	57.1	
55	2540	2654	2804	2952	3050	3220	3487	3917	4541	5428	6318	6816	6429	4719	1989	490	94.4	54.9	
60	1725	1781	1863	1943	1981	2019	2159	2412	2881	3956	5185	5770	5408	3277	1079	328	67.5	51.7	
65	1232	1266	1315	1367	1394	1428	1529	1705	2059	2801	3808	4298	3830	2277	801	247	60.3	49.8	
70	493	493	494	502	513	541	584	643	827	1068	1741	2089	1463	779	385	126	49.7	47.0	
75	341	342	342	346	354	376	413	462	636	829	1173	1335	946	520	257	93.1	46.6	45.5	
80	112	115	115	112	115	129	156	190	350	471	320	204	169	131	64.1	43.9	41.9	43.3	
85	73.8	75.3	75.4	73.7	75.8	84.4	100	121	218	291	201	133	113	91.0	52.0	41.0	40.7	42.3	
90	16.2	16.2	16.3	16.4	16.6	17.0	17.4	18.1	19.3	20.9	22.9	25.2	28.0	31.0	33.8	36.5	38.9	40.7	

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-10-26

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks: