

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	644.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	161.3V x 143.0H
	At 50% of Imax	44.1V x 120.3H
	At 90% of Imax	15.0V x 104.3H

Beam Flux	Total	997.6 lumens per klm.
	To 10% of Imax	925.0 lumens per klm.
	To 50% of Imax	549.1 lumens per klm.
	To 90% of Imax	82.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

Luminaire Efficiency (Light Output Ratio)	100.0 %
---	---------

---

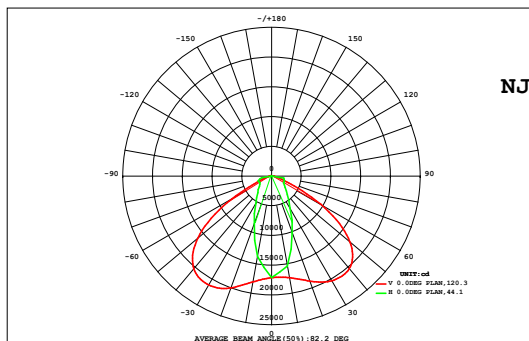
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

---

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



DATA OF LAMP		Eff:143.50lm/W	
NJZ-FC0210-V01-RZ-32-PC-U-GR		Imax(cd)	21163
NOMINAL POWER(W)	240	AVAILABILITY(%)	92.6
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	30418
NOMINAL FLUX(lm)	32839.5	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	32839
TEST VOLTAGE(V)	220	θ @50%(H,V)	120,44DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	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
80	0.16	1.75	5.27	10.4	17.0	24.5	35.2	52.6	69.8	69.9	52.5	34.7	24.0	16.5	9.97	4.86	1.50	0.12	431	121
70	0.33	3.09	9.15	17.7	27.2	36.0	45.5	58.7	72.1	72.0	58.3	45.1	35.8	27.0	17.2	8.76	2.86	0.27	537	168
60	0.51	4.64	14.1	27.4	40.5	51.6	61.1	68.6	72.6	72.4	68.1	60.6	51.1	39.9	26.7	13.6	4.35	0.44	678	402
50	0.67	6.23	20.3	41.4	60.5	75.3	85.5	92.0	95.2	95.2	91.9	85.2	74.5	59.3	40.1	19.6	5.90	0.59	949	877
40	0.81	7.61	28.2	64.7	96.6	115	126	131	133	134	132	126	114	94.1	62.2	26.9	7.24	0.72	1400	1361
30	0.91	8.74	38.7	108	169	198	206	207	205	206	209	209	197	165	103	36.5	8.25	0.81	2276	2248
	0.98	9.70	52.0	169	281	338	351	342	333	337	352	361	342	276	162	47.8	8.98	0.86	3766	3741
	1.01	10.3	62.9	221	380	473	502	489	476	484	509	523	483	377	212	57.1	9.43	0.88	5269	5246
	1.01	10.4	65.8	234	404	504	535	522	512	521	549	564	519	404	224	58.7	9.41	0.88	5639	5616
	0.97	9.91	57.9	196	331	401	417	406	400	410	435	450	420	334	189	51.7	9.05	0.85	4521	4497
	0.91	9.14	44.9	135	212	243	246	242	242	249	264	272	261	217	128	39.6	8.25	0.78	2815	2787
-30	0.79	8.00	32.2	79.1	114	129	138	144	147	149	150	147	139	119	76.0	29.3	7.33	0.68	1610	1576
-40	0.65	6.74	23.2	47.8	68.3	82.8	93.0	99.8	104	104	102	95.5	85.3	69.2	46.2	21.4	6.15	0.54	1056	1003
-50	0.47	5.16	16.1	31.0	44.9	56.8	66.4	73.6	77.9	78.0	73.8	66.8	57.1	44.7	30.2	15.1	4.72	0.38	743	562
-60	0.31	3.54	10.5	20.1	30.2	39.4	48.7	59.2	67.4	66.9	58.3	48.0	38.9	29.7	19.3	9.85	3.15	0.23	554	137
-70	0.17	2.06	6.11	11.9	18.9	26.3	36.2	51.8	65.3	63.9	49.3	34.6	25.4	18.1	11.2	5.51	1.72	0.11	429	75.6
-80	0.05	0.58	1.68	3.37	5.75	8.88	14.3	24.2	30.7	29.2	20.3	11.9	7.60	4.80	2.63	1.15	0.27	0.01	167	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
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	10.7	108	489	1418	2303	2803	3007	3063	3103	3142	3174	3134	2876	2296	1360	447	98.5	9.15	32839	---
Φ a	0.00	3.67	360	1290	2147	2629	2800	2847	3018	3051	2954	2929	2706	2143	1231	310	0.43	0.00	---	30418

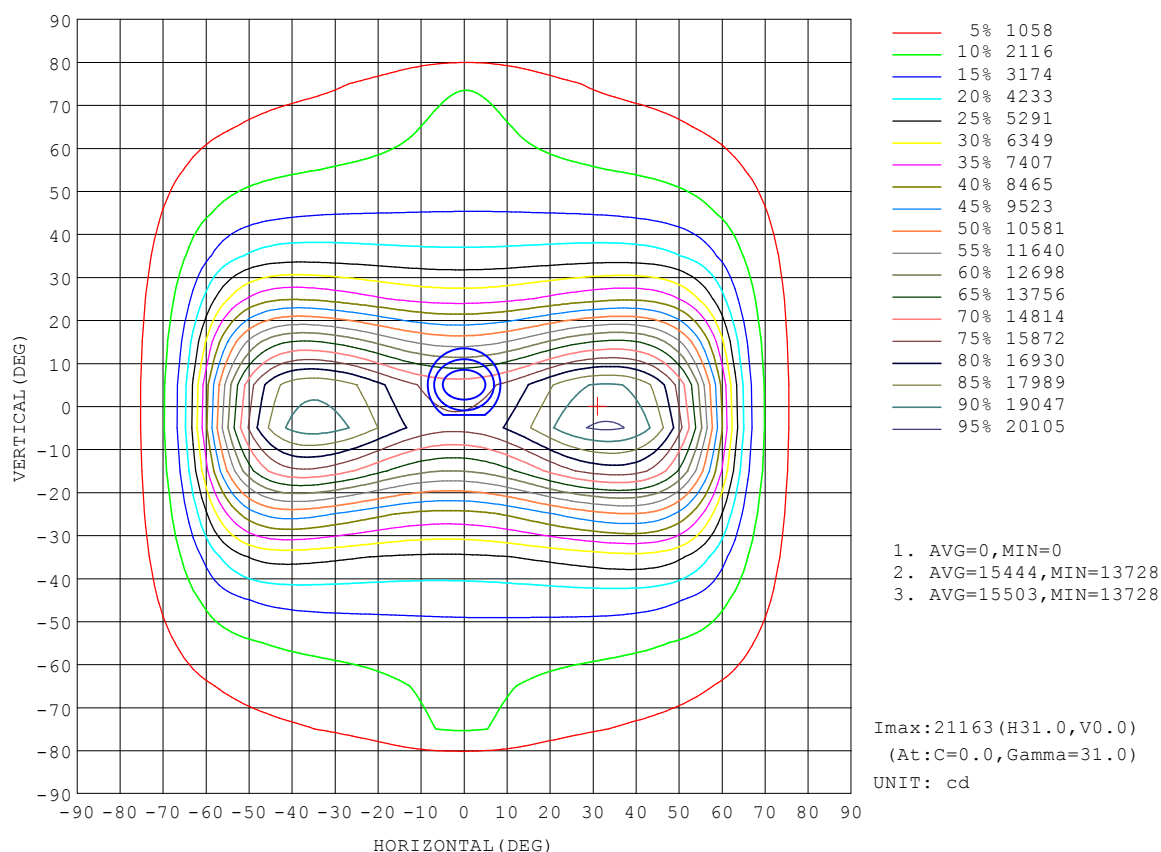
one-half-peak spread: U:24.2,D:20.4 , L:26.2,R:28.3 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

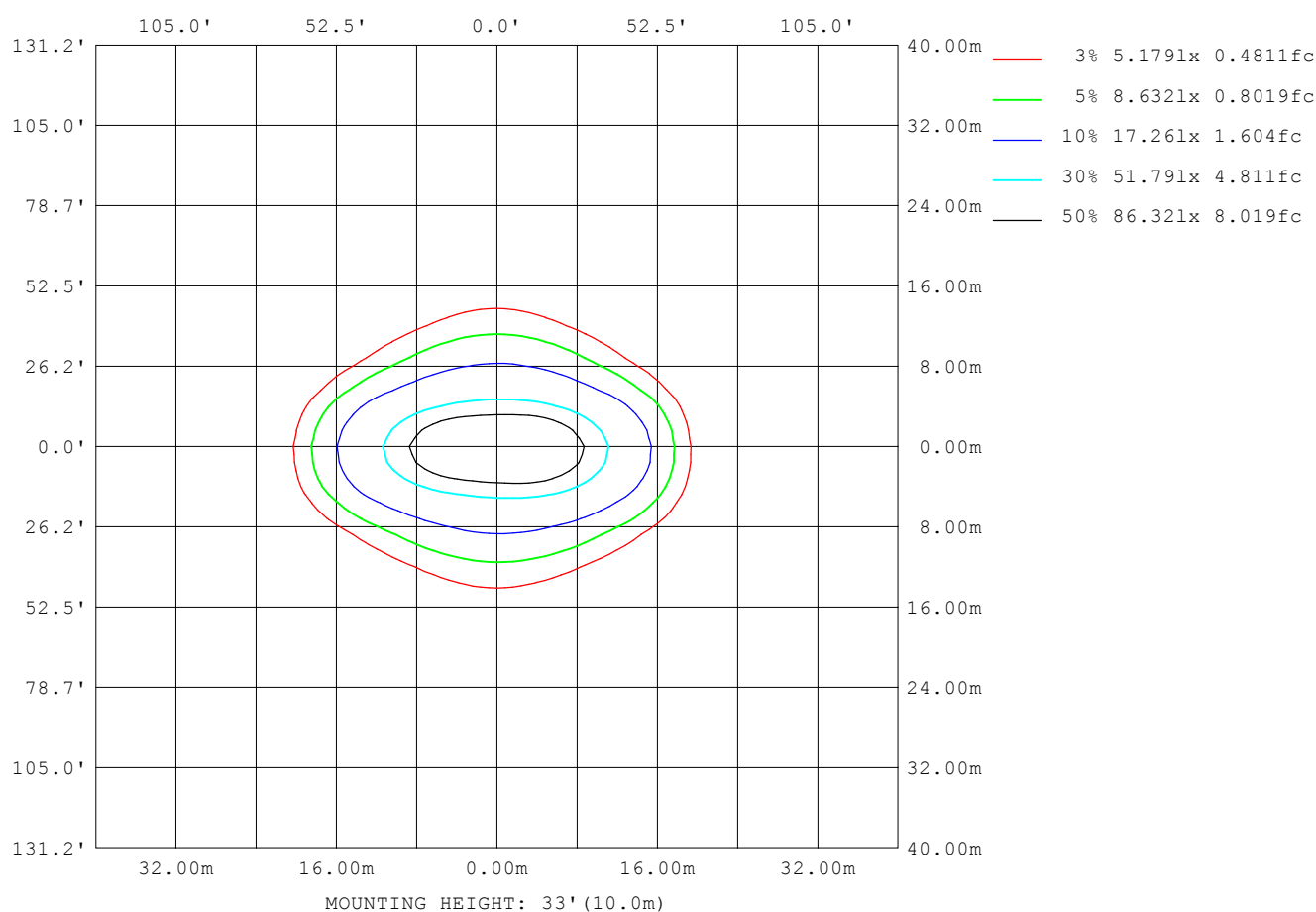


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

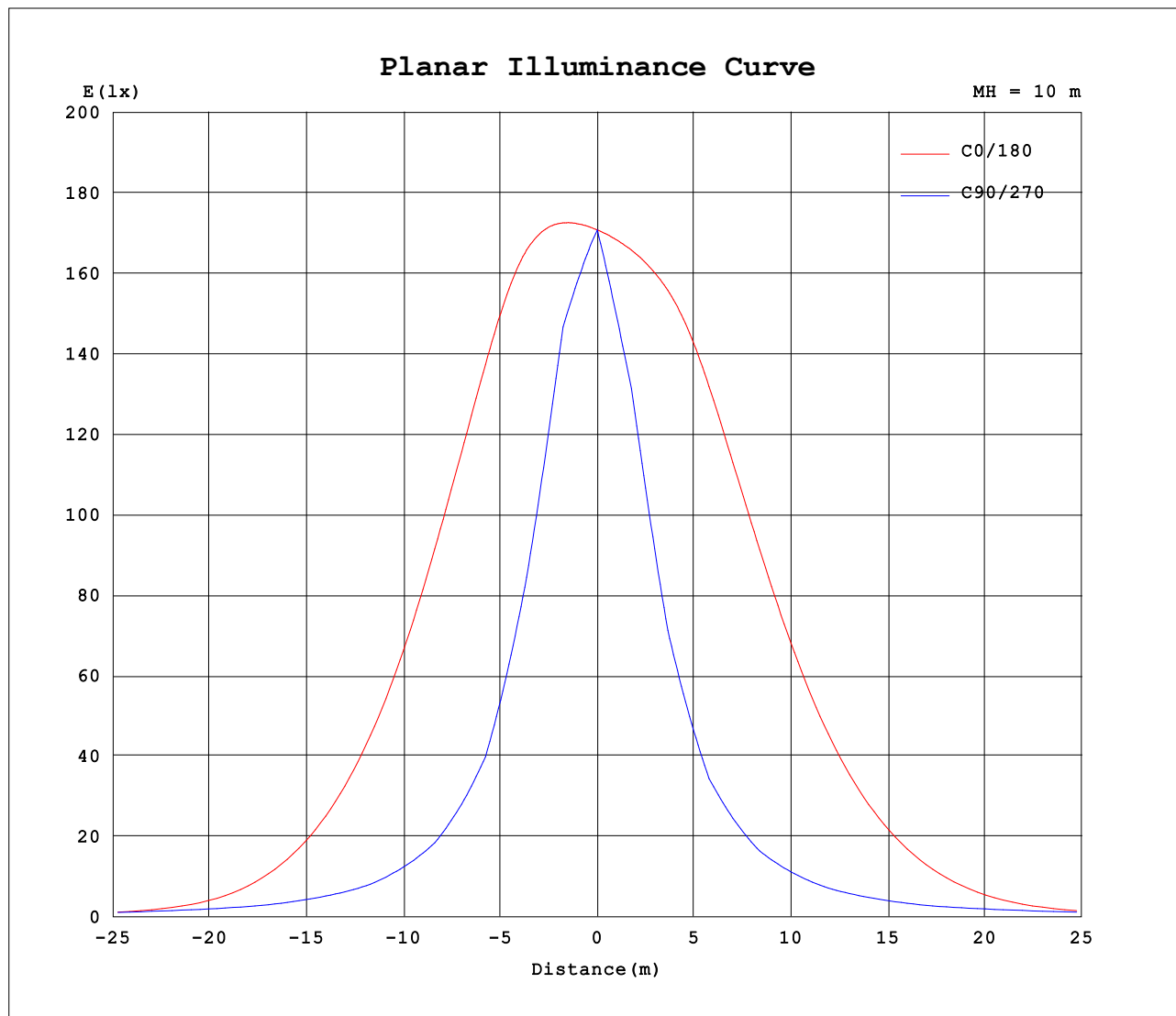
Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



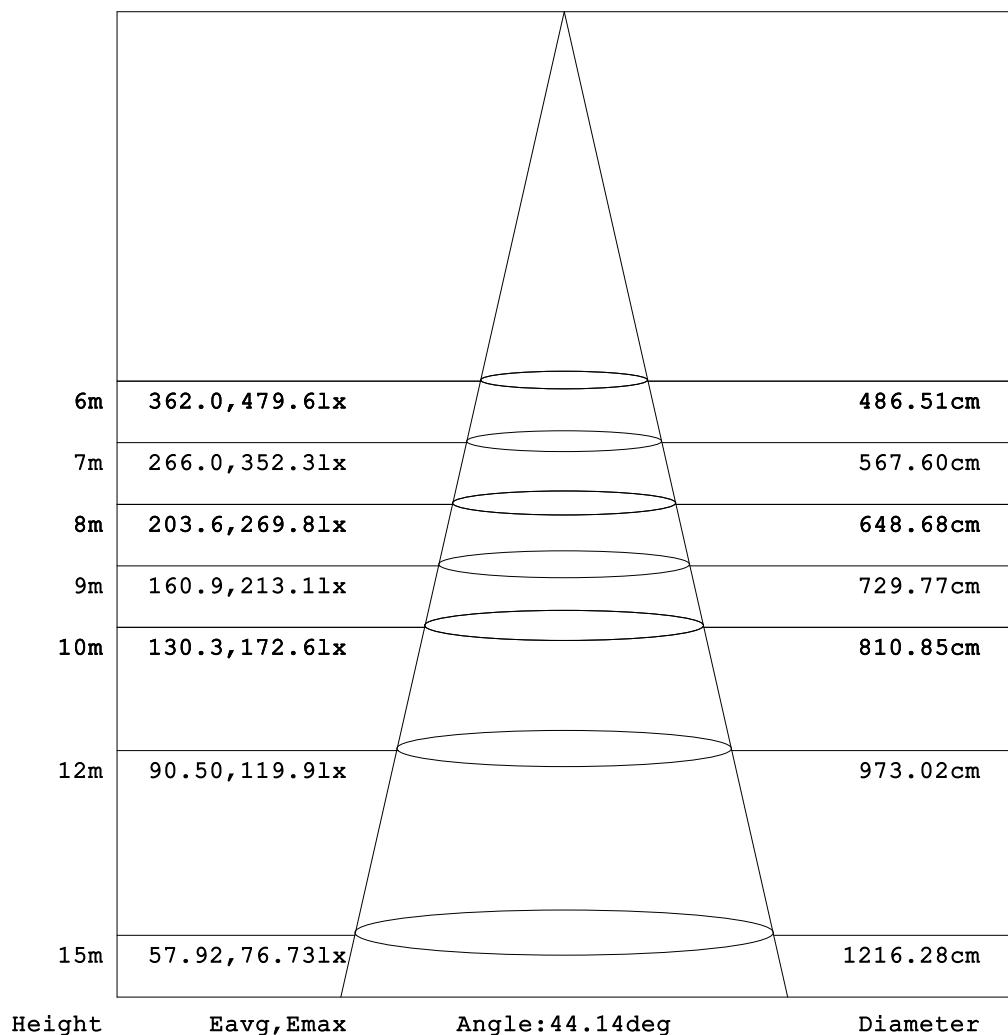
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

### AAI Figure

Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:7025 lm



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

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

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	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
-85	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
-80	0.70	2.08	8.98	17.5	24.9	32.6	40.4	48.1	56.3	64.8	73.1	82.1	94.2	112	136	169	196	208	209
-75	0.61	2.31	11.4	24.0	34.8	46.2	57.4	67.9	78.1	88.0	96.8	105	116	130	150	175	200	215	220
-70	0.75	4.70	19.4	34.8	49.3	64.2	78.8	91.7	104	115	124	132	142	155	172	192	212	226	229
-65	0.59	4.27	21.0	40.7	59.7	79.7	98.8	116	131	143	152	160	169	179	191	205	219	229	233
-60	0.80	8.15	31.7	53.8	77.9	103	126	146	163	175	184	192	199	207	215	224	230	235	236
-55	0.59	6.78	31.9	58.4	87.8	121	153	181	202	216	226	234	241	246	252	257	261	264	265
-50	0.85	12.2	43.5	74.0	110	151	193	225	247	262	272	280	284	288	290	291	293	294	295
-45	0.59	9.82	42.1	75.4	117	170	230	282	316	335	345	349	351	351	351	351	351	352	353
-40	0.94	17.5	53.5	91.6	143	212	290	356	395	414	420	420	418	415	413	411	410	410	412
-35	0.59	13.1	49.5	88.5	144	228	345	459	531	563	567	559	547	535	525	517	512	510	512
-30	1.05	22.7	59.7	104	173	286	449	598	687	717	712	693	671	651	634	621	613	610	614
-25	0.61	17.6	54.4	98.4	170	298	518	744	903	983	1002	984	949	911	873	841	820	811	814
-20	1.18	27.8	64.7	115	206	383	686	966	1163	1264	1289	1263	1212	1155	1098	1051	1022	1011	1019
-15	0.64	21.3	57.5	105	191	368	710	1065	1333	1494	1564	1567	1530	1472	1404	1340	1295	1273	1274
-10	1.24	28.7	66.9	121	227	463	887	1288	1584	1766	1849	1861	1828	1764	1682	1608	1555	1531	1536
-5	0.67	22.5	59.0	109	203	410	829	1264	1599	1816	1929	1960	1938	1880	1798	1715	1655	1622	1619
0	1.30	29.5	68.2	124	236	493	956	1394	1719	1928	2032	2056	2031	1967	1878	1795	1736	1706	1708
5	0.50	22.5	59.0	108	201	402	801	1216	1534	1739	1846	1875	1854	1799	1720	1639	1579	1545	1540
10	1.73	28.7	66.8	120	223	441	823	1184	1448	1608	1682	1691	1661	1603	1528	1455	1403	1376	1376
15	0.40	21.7	57.2	104	186	347	644	952	1183	1318	1378	1382	1352	1305	1247	1190	1146	1121	1116
20	1.68	27.5	64.1	113	198	352	598	828	986	1063	1083	1064	1027	985	942	904	876	861	860
25	0.54	20.0	53.6	96.4	163	275	450	628	753	818	837	829	806	779	752	727	708	697	695
30	1.53	24.8	58.6	101	164	258	379	487	555	586	592	586	574	562	552	542	535	532	531
35	0.67	17.5	48.2	85.6	136	207	296	378	434	464	475	476	472	467	461	456	452	449	448
40	1.42	21.6	51.7	87.5	133	190	249	296	329	349	360	366	368	369	368	367	366	366	366
45	0.76	14.5	40.6	71.5	108	153	199	239	267	286	298	306	312	314	316	318	319	319	320
50	1.31	17.0	41.2	69.1	101	135	168	195	214	229	240	250	256	261	265	268	271	273	273
55	0.85	10.4	31.1	54.1	79.7	107	134	157	176	190	201	209	217	224	230	237	243	247	249
60	1.26	12.0	29.9	48.9	69.5	90.7	110	127	143	155	164	172	180	189	199	208	217	223	224
65	0.93	5.95	21.1	36.4	52.7	69.5	85.6	100	114	126	135	143	152	162	176	193	212	228	235
70	1.21	5.60	18.3	30.3	42.6	55.0	67.2	78.7	90.0	101	110	118	127	141	159	185	214	237	245
75	1.03	2.69	10.8	19.8	28.7	37.8	46.8	55.4	64.1	72.9	80.8	88.5	97.9	111	128	152	178	199	207
80	1.14	2.01	6.89	12.9	18.4	24.1	29.8	35.6	41.8	48.3	55.1	62.7	72.9	86.9	105	129	152	166	170
85	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

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:240W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

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	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	
-85	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	
-80	201	180	148	119	99.2	84.9	74.7	66.5	58.3	49.9	41.8	34.1	26.4	18.8	11.6	4.25	1.14	0.77	
-75	213	196	170	145	127	113	103	94.9	86.1	76.2	66.0	55.4	44.3	33.0	22.2	11.1	2.38	0.80	
-70	220	202	181	163	148	137	128	120	110	98.5	86.0	72.4	57.6	42.7	28.6	13.1	2.23	0.70	
-65	228	217	204	190	178	169	161	153	143	131	115	98.3	79.3	59.2	40.3	22.1	4.89	0.78	
-60	233	228	220	212	204	197	190	182	171	157	138	117	92.9	67.9	44.9	22.6	3.94	0.72	
-55	265	262	258	254	249	244	238	230	219	203	182	154	121	88.4	59.1	33.4	8.11	0.79	
-50	295	295	294	293	292	289	283	274	260	242	216	178	136	96.6	62.6	33.4	6.16	0.76	
-45	355	356	358	360	362	363	362	357	345	322	285	232	171	118	76.7	43.6	11.8	0.80	
-40	414	418	423	428	433	438	440	436	422	390	336	261	184	122	76.5	41.4	8.90	0.76	
-35	517	527	539	553	568	583	595	599	587	546	466	349	232	147	90.5	51.2	16.5	0.83	
-30	624	640	660	684	709	733	753	761	741	676	555	386	240	145	87.1	47.3	12.2	0.75	
-25	830	860	899	944	987	1024	1050	1054	1019	926	758	526	304	173	101	56.4	21.1	0.88	
-20	1047	1094	1156	1223	1281	1327	1353	1340	1269	1122	879	566	302	165	94.0	50.6	15.7	0.79	
-15	1301	1352	1423	1504	1576	1624	1643	1622	1535	1364	1093	731	380	196	108	59.9	23.6	0.93	
-10	1571	1635	1723	1818	1894	1933	1934	1881	1746	1515	1173	739	359	182	99.4	53.3	18.0	0.83	
-5	1647	1706	1791	1889	1974	2020	2024	1976	1849	1625	1289	853	424	208	112	61.7	24.5	0.97	
0	1742	1807	1898	1999	2079	2115	2105	2036	1878	1619	1241	778	370	184	100	53.6	17.9	0.87	
5	1564	1617	1695	1786	1865	1909	1914	1869	1750	1543	1227	818	413	206	112	61.6	24.4	1.05	
10	1402	1454	1527	1608	1675	1712	1714	1668	1553	1362	1060	680	342	179	99.0	53.3	17.9	0.88	
15	1132	1166	1219	1280	1336	1377	1394	1377	1309	1174	952	653	354	191	108	60.0	23.7	1.11	
20	872	897	933	976	1017	1052	1074	1069	1022	916	735	494	281	161	93.7	50.8	16.7	0.94	
25	701	715	736	762	788	811	827	828	802	737	619	450	278	167	99.9	56.6	22.0	1.12	
30	534	540	548	558	568	577	584	582	564	520	443	330	221	140	86.5	47.4	15.2	0.96	
35	450	453	457	462	467	471	473	469	455	425	372	295	210	140	88.8	50.8	19.3	1.12	
40	366	367	368	369	368	366	362	353	337	312	275	224	167	116	74.5	40.7	12.5	1.01	
45	320	319	318	317	314	311	305	296	283	264	237	198	154	110	73.2	42.1	15.6	1.12	
50	273	270	267	263	259	253	246	235	222	206	185	154	122	88.8	58.5	32.2	9.18	1.04	
55	248	244	238	231	224	217	209	200	189	175	157	133	107	80.1	54.5	31.5	11.2	1.12	
60	222	215	206	196	186	177	169	161	151	137	120	102	81.6	60.6	40.8	22.3	5.39	1.08	
65	230	215	196	178	164	152	144	136	127	114	100.0	85.0	68.8	52.0	35.7	20.5	6.05	1.14	
70	234	209	179	154	136	124	115	107	97.6	85.8	73.9	61.8	49.3	36.6	24.5	12.8	2.23	1.11	
75	201	183	156	131	112	98.4	88.5	80.6	72.7	63.7	54.5	45.5	36.4	27.2	18.3	9.71	2.37	1.16	
80	163	146	122	98.9	81.4	68.1	58.4	51.0	44.3	37.8	31.6	25.6	19.8	14.1	8.75	3.23	1.31	1.14	
85	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	

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks: