

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1673.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	72.5V x 71.8H
	At 50% of Imax	31.9V x 33.6H
	At 90% of Imax	8.4V x 14.3H

Beam Flux	Total	996.5 lumens per klm.
	To 10% of Imax	648.6 lumens per klm.
	To 50% of Imax	308.8 lumens per klm.
	To 90% of Imax	37.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.6 %

Luminaire Efficiency (Light Output Ratio)	100.0 %
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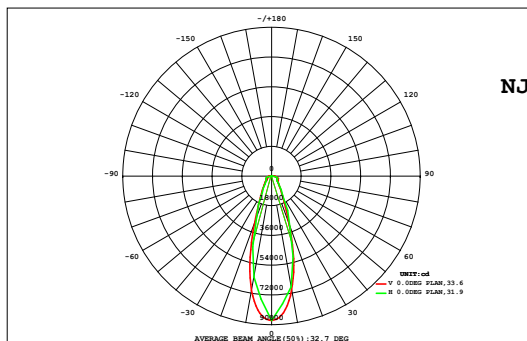
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



DATA OF LAMP		Eff:126.09lm/W	
NJZ-EMD120-V01-RZ-30-PC-U-GR		Imax(cd)	87291
NOMINAL POWER(W)	420	AVAILABILITY(%)	64.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	33767
NOMINAL FLUX(lm)	52166.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	52166
TEST VOLTAGE(V)	220	θ @50% (H,V)	34,32DEG

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	0.75	9.99	24.6	40.8	57.5	73.3	86.7	97.2	103	104	98.4	88.1	74.8	59.2	42.4	26.5	12.3	1.74	1002	0.00
70	1.99	14.2	31.0	50.9	71.5	88.1	98.9	108	116	117	108	98.8	87.9	71.1	50.9	31.3	14.7	2.59	1162	0.00
60	2.77	17.0	38.1	62.9	82.9	95.4	104	111	119	119	112	104	95.0	80.5	61.2	37.9	17.4	3.21	1264	0.00
50	3.35	19.5	44.7	70.1	83.1	98.4	121	141	152	153	145	125	101	83.0	67.2	43.5	19.7	3.71	1474	0.00
40	3.83	21.5	49.2	69.6	88.4	122	167	216	251	255	226	176	128	91.1	68.1	46.6	21.4	4.09	2004	422
30	4.16	22.9	50.5	69.6	99.3	153	245	389	515	528	414	264	163	104	69.9	47.7	22.4	4.38	3165	2150
	4.39	23.9	50.2	71.8	111	190	366	780	1189	1223	846	399	204	116	72.8	47.5	22.9	4.55	5722	4918
	4.50	24.4	50.0	73.7	119	219	487	1300	2138	2193	1402	534	237	125	74.9	47.4	23.2	4.63	9058	8335
	4.51	24.5	49.9	74.1	121	225	516	1411	2338	2391	1486	550	240	126	74.8	47.2	23.1	4.60	9706	8999
	4.32	24.0	50.0	72.6	114	202	419	978	1492	1516	985	427	212	118	72.8	46.9	22.6	4.45	6760	5992
	3.88	23.2	50.2	70.7	103	165	281	465	612	609	435	277	169	105	69.5	46.5	21.9	4.07	3510	2574
-30	3.26	21.8	49.1	69.7	91.9	130	181	229	256	255	231	184	132	92.1	67.2	45.6	20.9	3.50	2062	377
-40	2.64	19.8	45.6	69.6	84.8	105	129	149	160	160	151	130	104	82.6	65.7	42.7	19.2	2.78	1524	0.00
-50	2.08	16.9	39.6	65.2	83.0	94.6	106	115	121	121	115	105	92.1	79.0	61.1	37.7	16.7	2.22	1272	0.00
-60	1.52	13.6	32.3	53.5	76.7	93.3	102	109	116	116	107	99.3	89.5	72.4	51.1	31.1	13.4	1.75	1180	0.00
-70	0.81	9.36	23.6	39.1	56.0	72.5	86.7	97.5	105	104	96.1	84.7	70.7	54.5	38.4	23.5	9.88	1.18	973	0.00
-80	0.13	2.92	7.98	13.3	19.1	24.6	29.7	33.4	34.5	34.5	33.2	29.2	23.9	18.5	13.1	8.09	3.02	0.25	329	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	48.9	310	686	1037	1462	2150	3525	6727	9818	9999	6989	3675	2225	1478	1021	658	305	53.7	52166	---
Φ a	0.00	0.00	0.00	0.00	0.00	372	2133	5424	8545	8737	5717	2316	523	0.00	0.00	0.00	0.00	0.00	---	33767

one-half-peak spread: U:16.8,D:15.3 , L:17.1,R:16.7

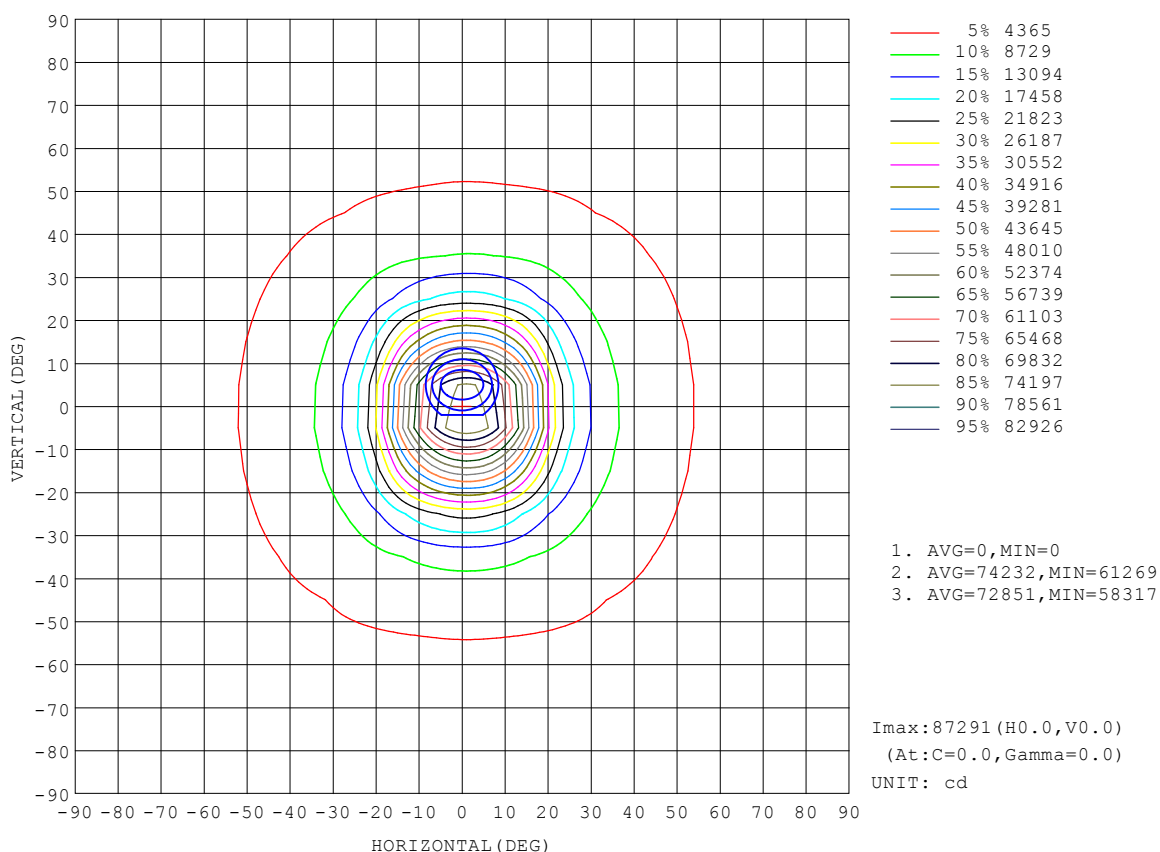
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 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:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

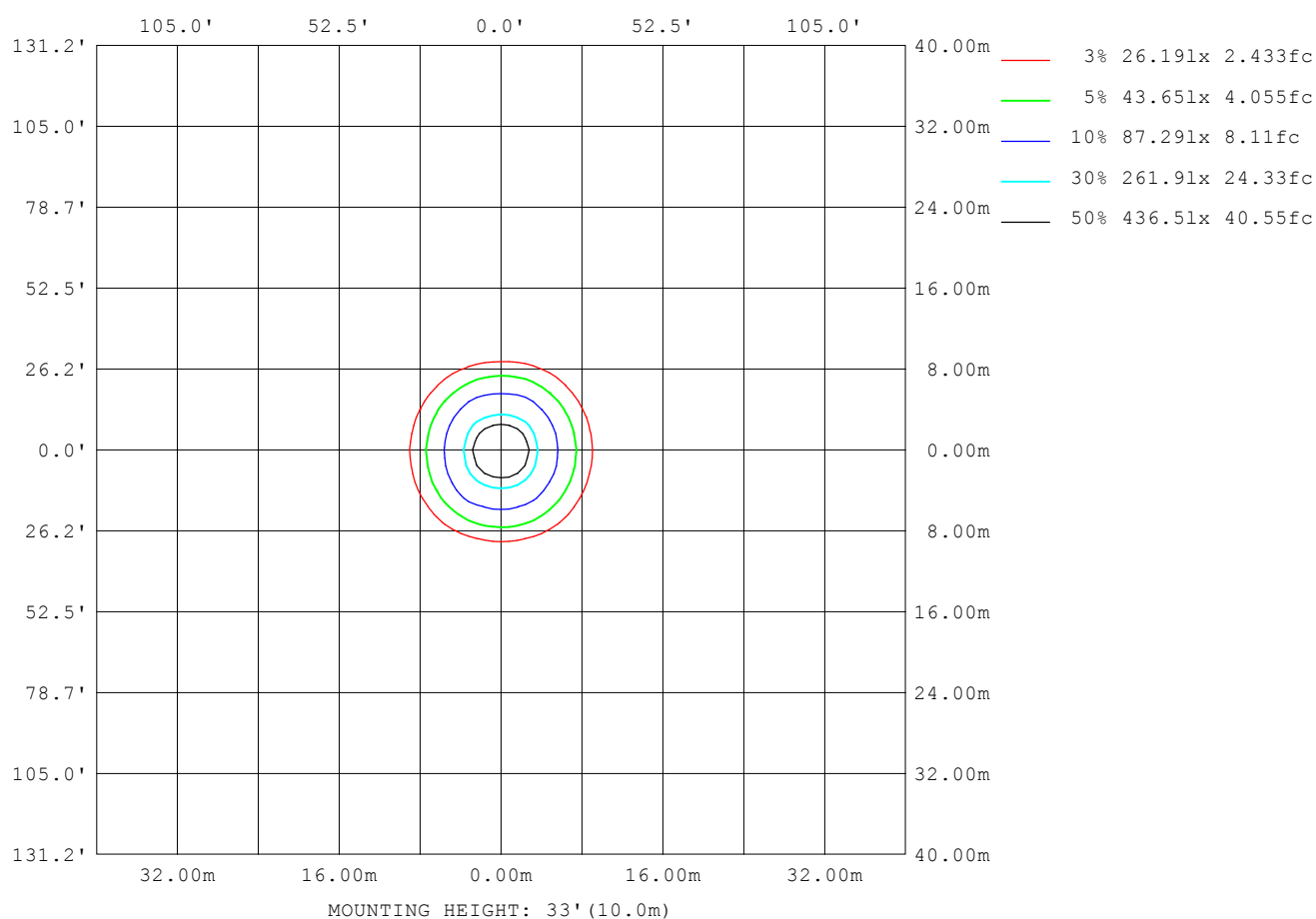


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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

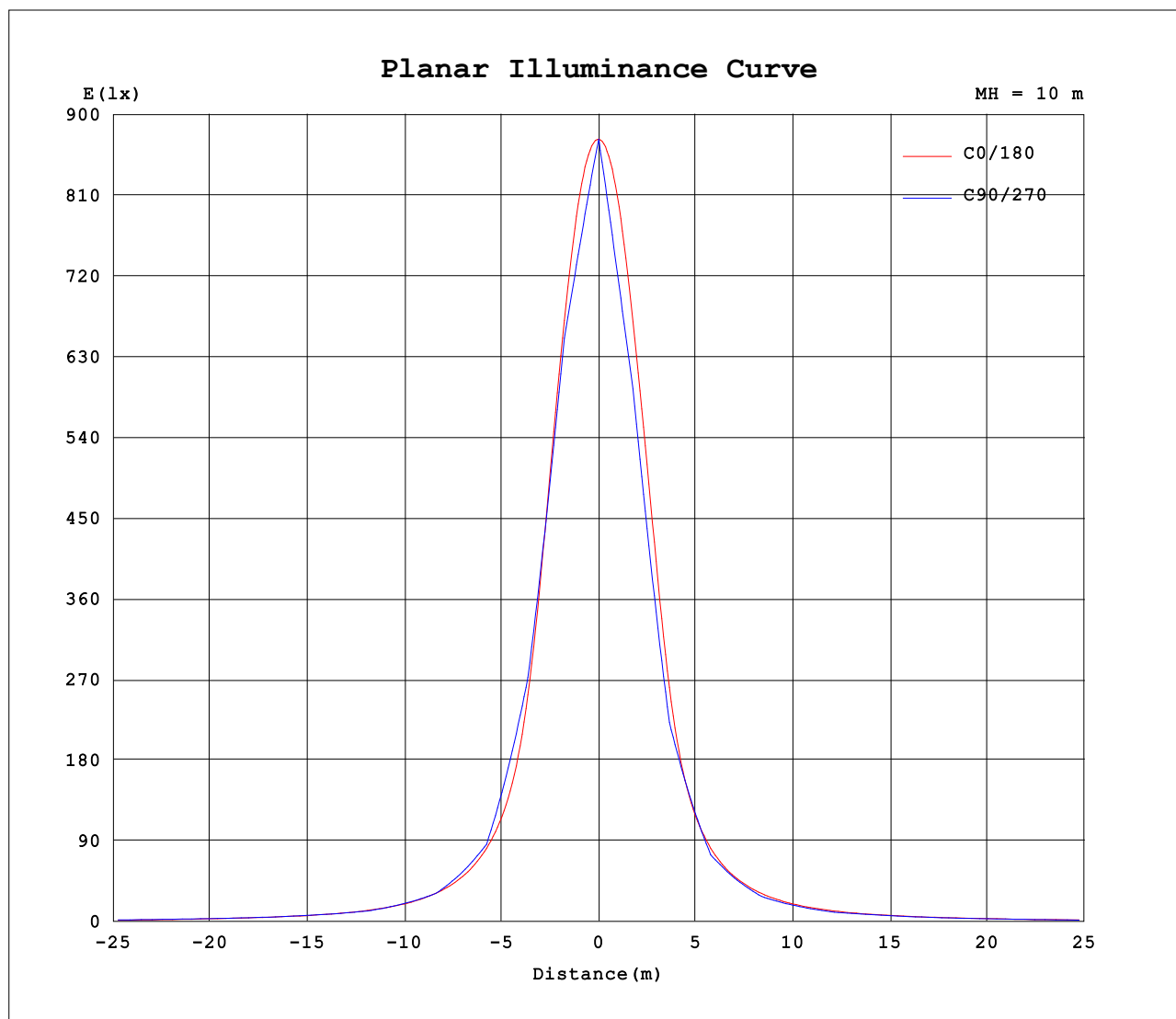
Test:U:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 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



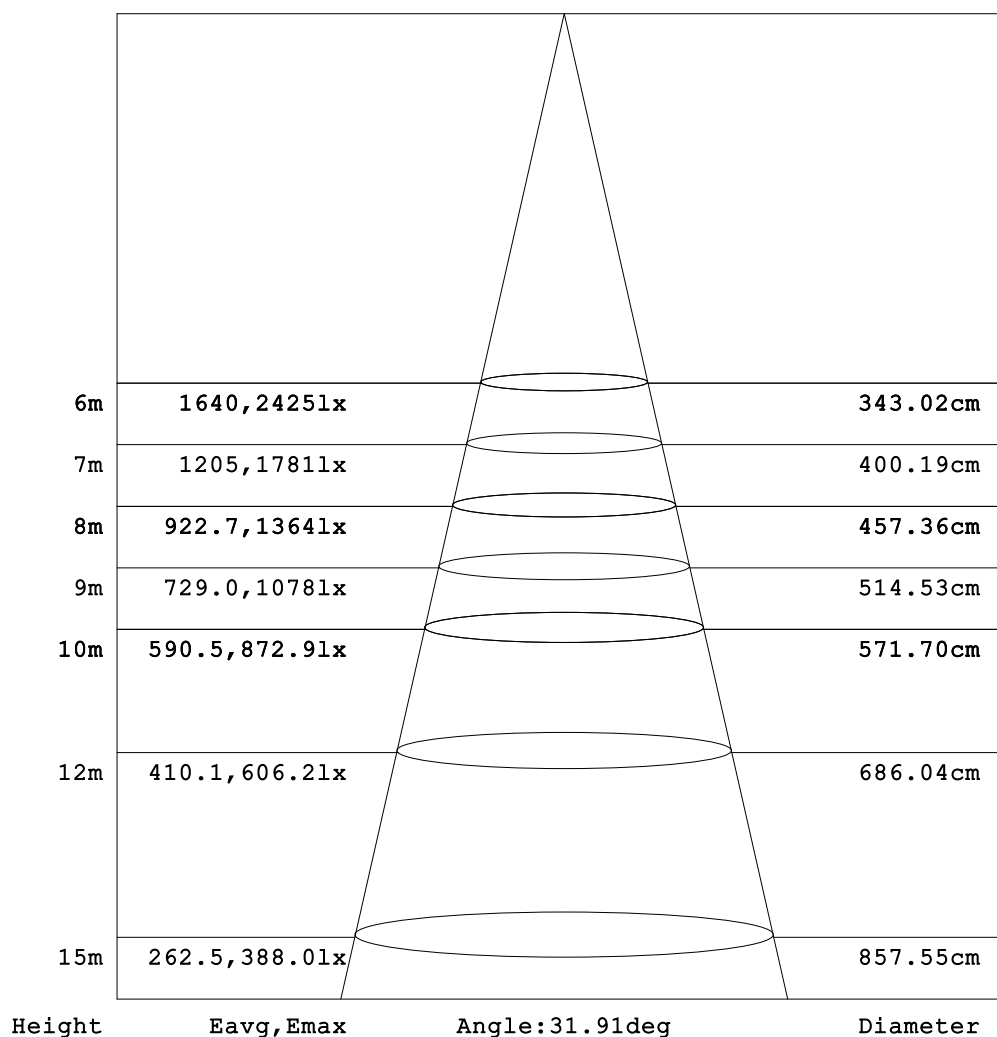
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:28 October 2019

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:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:15254 lm



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

H( $\beta$ ) Range: -90 - 90 DEG  
H( $\beta$ ) Interval: 1.0 DEG  
Test Speed: HIGH  
Temperature: 25.3 DEG  
Operators: CL  
Test Date: 28 October 2019

V(B) Range: -80 - 80 DEG  
V(B) Interval: 5.0 DEG  
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:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	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	1.27	3.45	36.0	83.1	120	142	158	174	190	203	215	225	235	244	252	257	260	261	261
-75	1.26	9.65	51.4	106	152	177	199	218	237	254	269	282	293	302	309	316	322	328	331
-70	1.29	29.2	87.1	152	194	222	247	270	291	312	329	342	355	362	369	378	385	397	401
-65	1.28	26.7	91.2	163	212	245	276	302	325	347	361	367	370	371	372	376	382	392	398
-60	1.38	51.1	124	201	243	281	316	343	368	390	396	394	387	380	376	377	382	391	395
-55	1.34	42.5	122	207	257	300	339	367	383	389	388	389	392	395	400	406	413	420	425
-50	1.51	68.6	156	238	287	335	375	400	402	388	379	385	398	412	427	439	447	452	455
-45	1.42	57.1	154	242	295	347	386	401	398	395	401	420	446	477	507	535	556	571	578
-40	1.75	85.2	195	267	325	377	408	402	392	403	429	464	507	554	600	641	673	693	702
-35	1.46	70.0	189	265	325	379	405	400	400	420	458	511	580	662	755	850	932	989	1016
-30	2.02	101	223	286	348	398	403	395	413	450	506	584	683	806	948	1094	1218	1302	1333
-25	1.34	85.6	213	281	344	392	402	399	421	465	535	635	773	970	1253	1615	1949	2190	2303
-20	2.50	131	235	301	362	398	396	408	443	505	599	735	931	1233	1695	2281	2792	3146	3280
-15	1.25	111	223	292	354	391	396	408	444	509	611	761	989	1364	2024	3065	4039	4725	5035
-10	2.75	153	240	308	367	391	397	419	466	548	675	863	1167	1703	2719	4283	5609	6493	6814
-5	1.08	127	227	297	359	388	396	415	458	535	658	842	1135	1645	2642	4369	6027	7235	7753
0	3.36	156	243	312	371	389	399	424	474	564	703	916	1262	1884	3153	5184	7013	8301	8729
5	0.00	126	227	296	360	389	396	414	456	532	651	831	1113	1602	2550	4207	5811	6971	7463
10	9.56	152	240	308	368	393	396	417	461	540	661	837	1118	1603	2507	3938	5155	5952	6226
15	0.00	122	222	290	353	393	396	406	439	499	595	733	939	1269	1836	2732	3589	4184	4445
20	3.01	146	233	298	360	398	394	404	436	491	577	698	867	1115	1473	1909	2305	2578	2681
25	1.98	113	212	278	340	392	401	396	415	454	516	604	723	885	1108	1378	1635	1824	1912
30	2.79	135	220	282	345	398	403	392	407	438	486	552	635	734	845	958	1054	1122	1150
35	2.30	99.1	198	260	320	377	404	397	394	410	442	487	543	610	683	756	820	866	889
40	2.76	119	203	261	320	374	406	399	385	393	414	442	477	514	551	582	607	622	630
45	2.45	81.1	179	236	290	341	381	397	392	386	389	402	424	448	472	493	509	520	526
50	2.79	96.3	180	232	281	326	366	394	396	379	367	370	380	391	402	411	417	421	423
55	2.54	59.0	155	207	250	290	328	358	373	376	375	374	375	376	379	383	389	397	402
60	2.82	70.3	153	199	235	270	303	330	353	373	382	378	370	361	357	357	364	377	381
65	2.60	33.5	120	170	204	234	263	287	308	328	342	347	348	347	348	352	358	370	376
70	2.82	35.8	112	157	185	210	234	253	272	290	305	316	327	333	340	349	356	366	370
75	2.67	11.4	62.4	113	142	166	187	204	219	234	247	257	267	274	281	288	294	299	302
80	2.81	4.05	35.4	82.4	110	131	148	161	173	183	193	202	210	218	224	230	234	234	235
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(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 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:220.04V I:1.9081A P:413.72W PF:0.9854 Freq:49.99Hz Lamp Flux:52166.3x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	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	261	260	256	248	240	231	220	210	197	186	172	159	145	126	90.7	50.6	14.0	1.39	
-75	327	322	314	306	297	288	277	265	250	235	218	201	182	161	126	75.5	34.9	1.49	
-70	392	381	369	360	350	341	330	314	297	278	258	235	213	187	141	83.4	34.7	1.32	
-65	393	383	373	367	363	359	355	345	332	313	293	270	243	214	176	108	57.0	1.67	
-60	389	380	374	372	373	377	378	371	361	341	320	294	263	229	186	108	50.8	1.04	
-55	423	416	409	402	395	388	381	373	369	364	348	324	294	256	216	144	75.7	2.23	
-50	454	450	442	429	413	396	381	372	376	382	368	343	310	268	223	140	69.6	0.30	
-45	576	566	549	523	492	459	428	403	388	383	378	364	333	291	244	184	88.1	4.58	
-40	696	677	647	605	557	509	463	426	398	382	384	374	341	296	246	185	74.0	0.00	
-35	1006	959	885	794	701	614	539	477	431	399	386	381	357	314	264	210	101	5.08	
-30	1303	1216	1088	944	807	688	587	508	448	408	385	383	358	313	262	207	85.0	0.00	
-25	2256	2031	1670	1319	1045	839	686	573	489	432	397	384	367	325	278	224	131	3.50	
-20	3149	2716	2103	1572	1190	923	734	600	503	439	400	382	361	320	273	216	115	0.03	
-15	4922	4349	3363	2261	1524	1111	846	669	546	465	415	388	369	331	288	233	154	3.60	
-10	6540	5644	4170	2580	1655	1175	876	681	551	466	415	388	363	327	283	224	135	0.00	
-5	7561	6610	4999	3131	1909	1303	951	728	581	485	426	393	370	336	295	238	159	4.83	
0	8327	7022	5070	3051	1852	1261	921	706	566	474	420	390	363	330	285	225	138	0.00	
5	7265	6354	4839	3060	1873	1283	939	722	578	484	426	394	371	338	296	238	160	10.1	
10	5956	5163	3893	2459	1592	1138	856	670	546	464	416	389	367	331	285	225	137	0.00	
15	4341	3878	3088	2129	1450	1066	820	654	540	463	415	390	374	337	292	235	157	10.5	
20	2598	2328	1904	1462	1120	879	708	585	497	438	402	385	369	328	278	219	133	0.00	
25	1885	1742	1498	1217	977	796	659	557	482	431	399	387	375	334	284	227	151	6.48	
30	1132	1072	978	866	753	651	565	496	444	408	388	388	367	322	268	210	125	0.00	
35	884	853	800	730	655	583	519	466	426	399	389	386	365	323	270	215	140	5.79	
40	628	617	595	564	527	487	450	419	395	383	389	381	349	303	251	195	111	0.00	
45	526	521	509	491	467	441	416	396	386	384	383	370	339	297	249	198	126	4.86	
50	423	421	417	408	397	385	373	368	375	385	374	348	314	272	227	178	95.7	0.91	
55	399	393	388	383	380	377	375	371	368	364	352	328	296	259	220	176	106	3.98	
60	373	362	357	357	361	368	375	372	362	341	321	296	263	231	197	153	72.5	2.15	
65	371	361	353	350	348	347	347	341	329	310	290	269	242	214	185	147	79.7	3.39	
70	365	356	347	342	334	326	318	306	290	271	252	232	210	187	161	121	45.4	2.85	
75	301	297	291	286	279	271	263	254	242	227	212	197	179	160	138	99.7	45.7	3.28	
80	235	235	233	227	221	213	205	197	188	177	166	155	141	125	106	60.4	17.8	3.15	
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(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 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: