

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	963.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	95.5V x 91.4H
	At 50% of Imax	57.9V x 58.2H
	At 90% of Imax	23.9V x 22.7H

Beam Flux	Total	998.8 lumens per klm.
	To 10% of Imax	823.8 lumens per klm.
	To 50% of Imax	540.6 lumens per klm.
	To 90% of Imax	102.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

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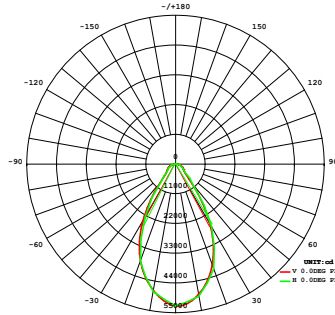
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 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:131.59lm/W	
	NJZ-FC0120-V01-RZ-60-PC-U-GR		Imax(cd)	52493
	NOMINAL POWER(W)	420	AVAILABILITY(%)	82.1
	RATED VOLTAGE(V)	220	Avai. FLUX(lm)	44728
	NOMINAL FLUX(lm)	54459.2	LOR(%)	100.0
	LAMPS INSIDE	1	TOTAL FLUX(lm)	54459
	TEST VOLTAGE(V)	220	θ @50%(H,V)	58,58DEG

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	0.11	1.84	6.72	14.0	23.0	32.1	41.0	47.8	55.6	55.9	48.9	42.8	34.4	25.3	15.9	8.10	2.55	0.22	456	0.00
70	0.34	4.34	13.8	26.4	40.7	54.7	66.8	74.0	77.2	77.5	75.2	68.6	56.9	42.9	28.5	15.4	5.14	0.49	729	0.00
60	0.62	7.19	21.4	38.9	57.1	75.0	90.7	101	107	107	103	92.6	77.2	59.5	41.1	23.1	8.10	0.78	1011	0.00
50	0.88	9.33	26.6	47.2	69.1	91.4	115	142	167	169	147	118	94.3	71.6	49.4	28.3	10.3	1.05	1359	348
40	1.11	10.9	30.3	53.3	78.9	114	187	303	401	408	318	203	121	82.1	55.6	32.0	11.8	1.26	2413	1799
30	1.28	12.0	32.9	57.9	89.7	170	392	678	881	888	697	418	188	95.0	60.6	34.7	13.0	1.42	4710	4278
	1.40	12.8	34.7	61.5	104	282	669	1046	1286	1284	1052	689	307	112	64.6	36.4	13.7	1.53	7057	6697
	1.45	13.1	35.5	63.7	119	385	850	1251	1496	1487	1243	859	409	129	67.2	37.4	14.0	1.58	8462	8137
	1.47	13.1	35.6	64.1	123	406	881	1291	1540	1520	1269	881	421	131	67.4	37.3	13.9	1.56	8696	8371
	1.38	12.7	34.4	61.6	110	326	741	1126	1364	1345	1114	748	337	115	64.8	36.2	13.5	1.49	7551	7204
	1.21	12.0	32.6	57.8	93.2	206	487	810	1019	1016	809	495	208	96.6	60.6	34.3	12.7	1.32	5452	5044
-30	0.93	10.8	29.9	52.8	79.8	120	233	410	545	543	410	234	121	83.0	55.4	31.6	11.5	1.07	2974	2435
-40	0.68	9.24	26.2	46.4	68.5	91.6	110	143	178	177	142	110	93.2	71.2	48.8	27.8	9.88	0.73	1353	417
-50	0.46	7.07	21.2	38.2	56.2	73.7	88.6	95.7	96.7	97.0	96.4	90.5	76.5	59.0	40.5	22.8	7.70	0.49	969	0.00
-60	0.27	4.50	14.6	27.3	41.1	54.7	66.5	73.7	76.9	77.5	75.3	68.6	57.0	43.3	29.0	15.8	4.84	0.30	731	0.00
-70	0.11	1.92	7.05	14.2	23.2	31.8	39.6	45.2	50.0	50.6	46.4	41.1	33.2	24.4	15.3	7.78	2.12	0.13	434	0.00
-80	0.01	0.29	1.15	2.65	4.74	6.92	9.22	11.3	14.8	14.4	11.4	9.31	6.95	4.81	2.74	1.14	0.24	0.01	102	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	13.7	143	405	728	1180	2521	5067	7649	9355	9317	7658	5168	2641	1245	767	430	155	15.4	54459	---
Φ a	0.00	0.00	0.00	0.00	228	1785	4390	7040	8763	8735	7061	4491	1924	312	0.00	0.00	0.00	0.00	---	44728

one-half-peak spread: U:30.5,D:27.8 , L:28.7,R:29.9

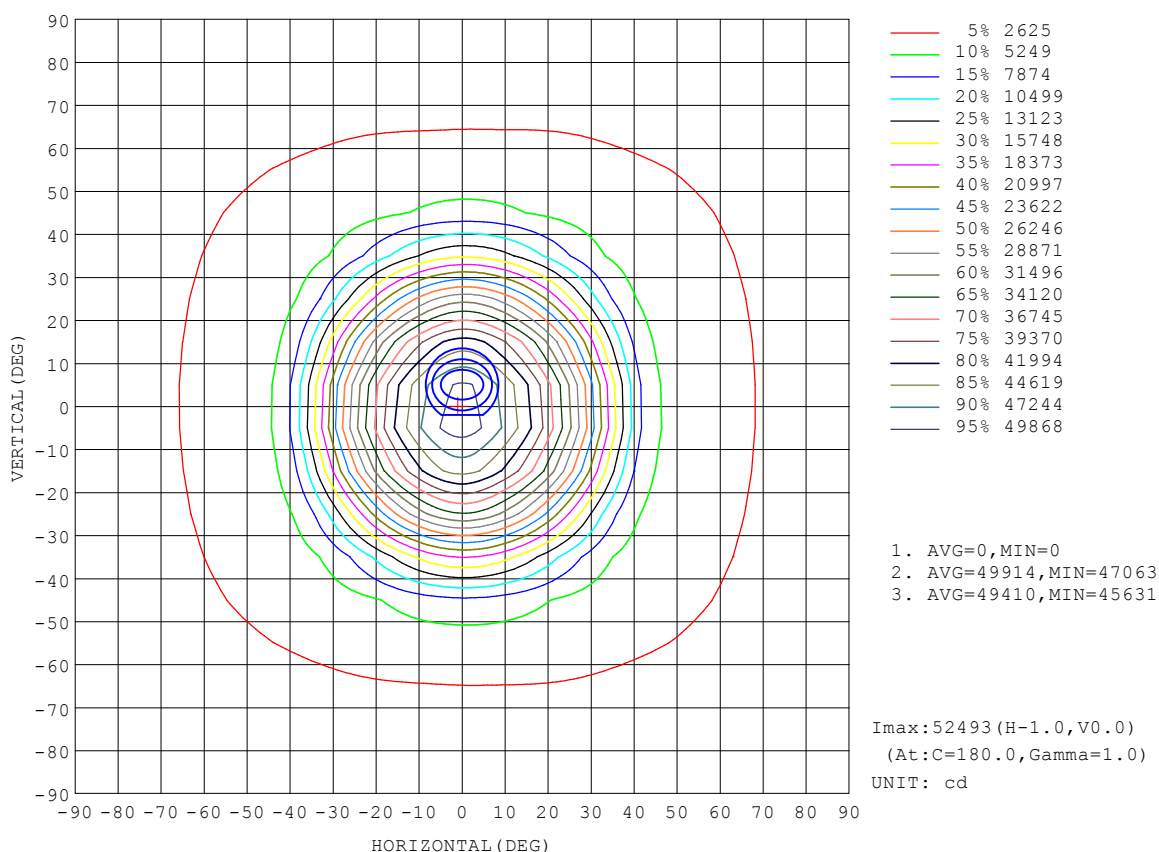
NEMA Beam Type: Type 5

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:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 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

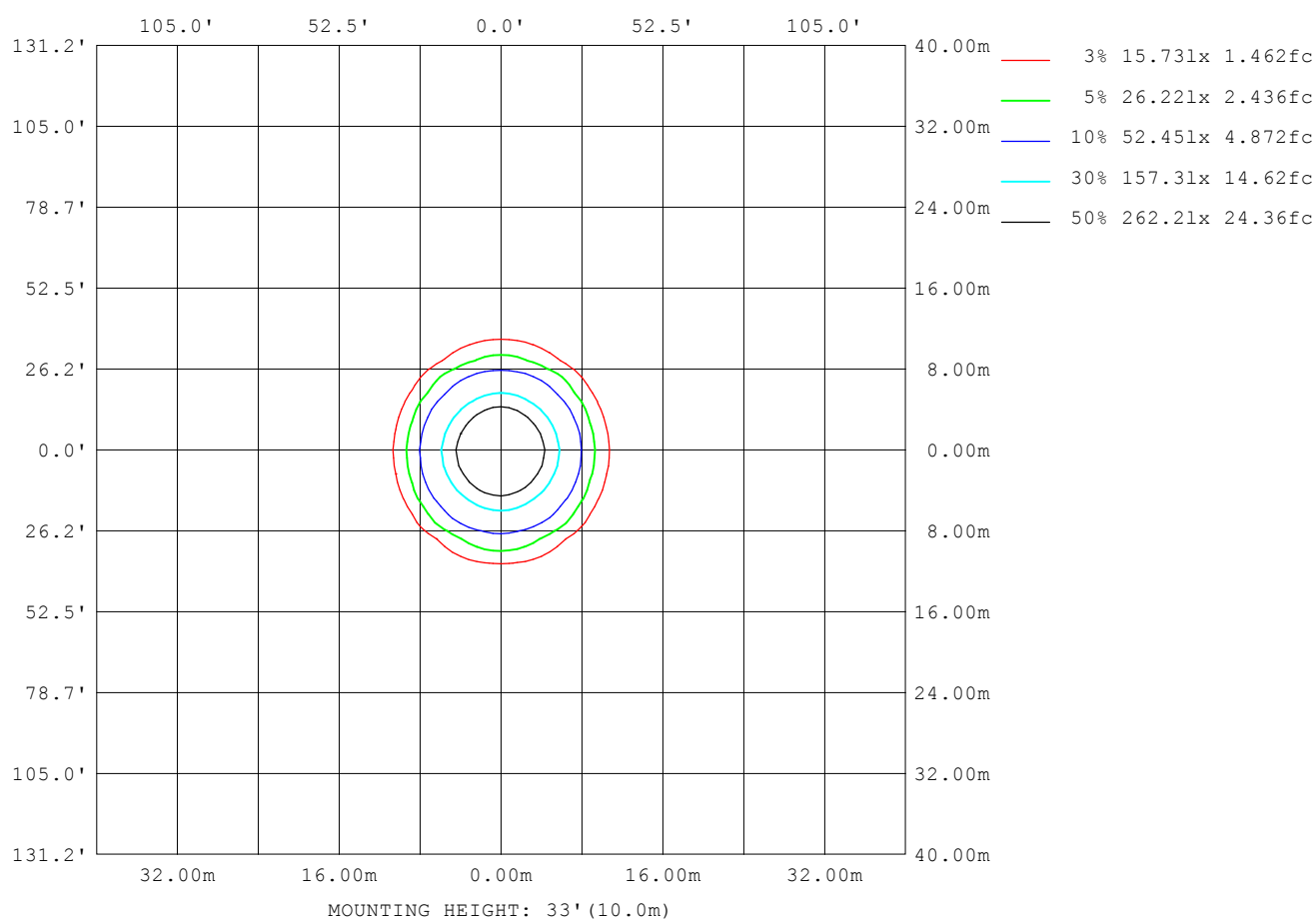


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Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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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

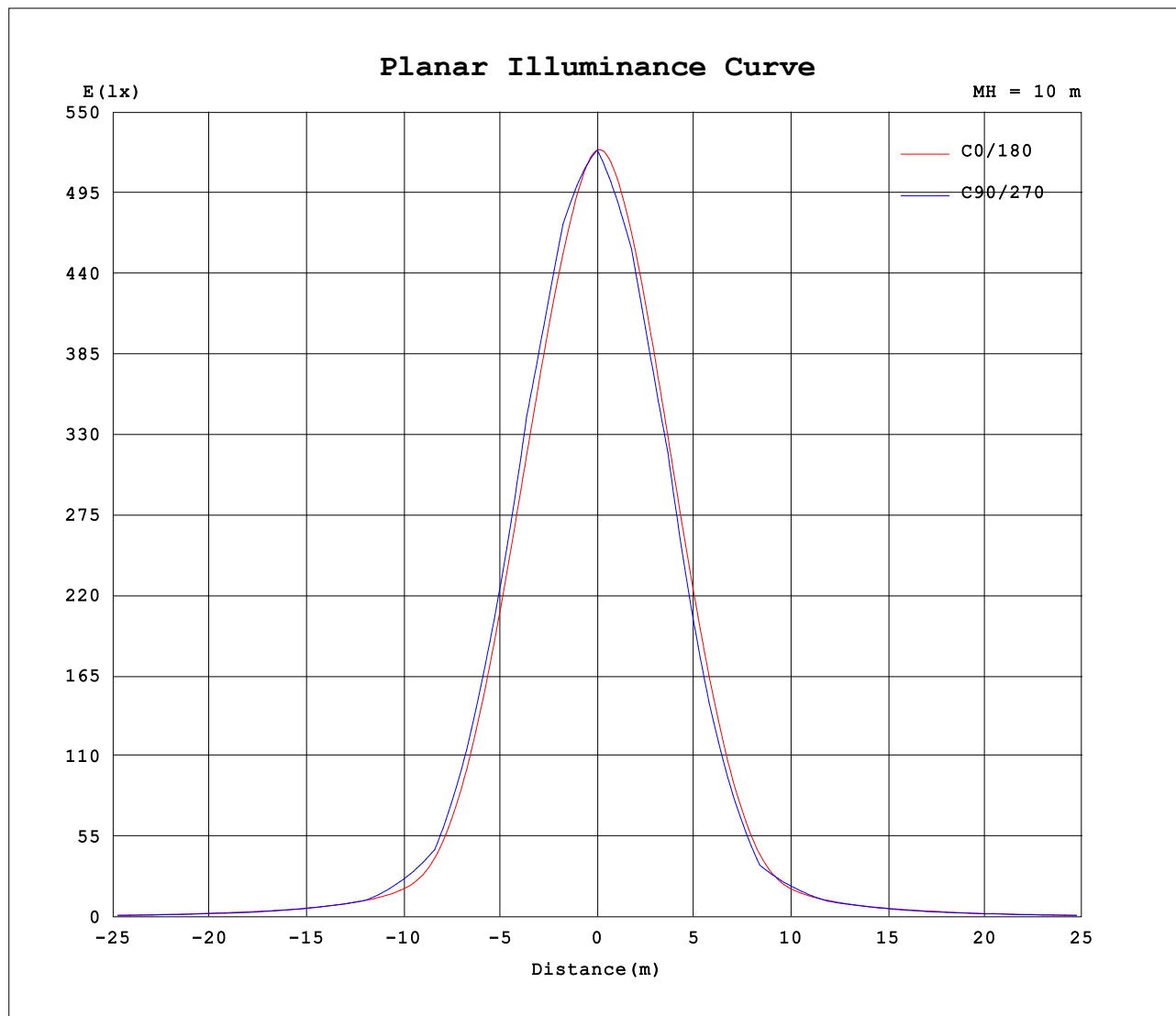
Test:U:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



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



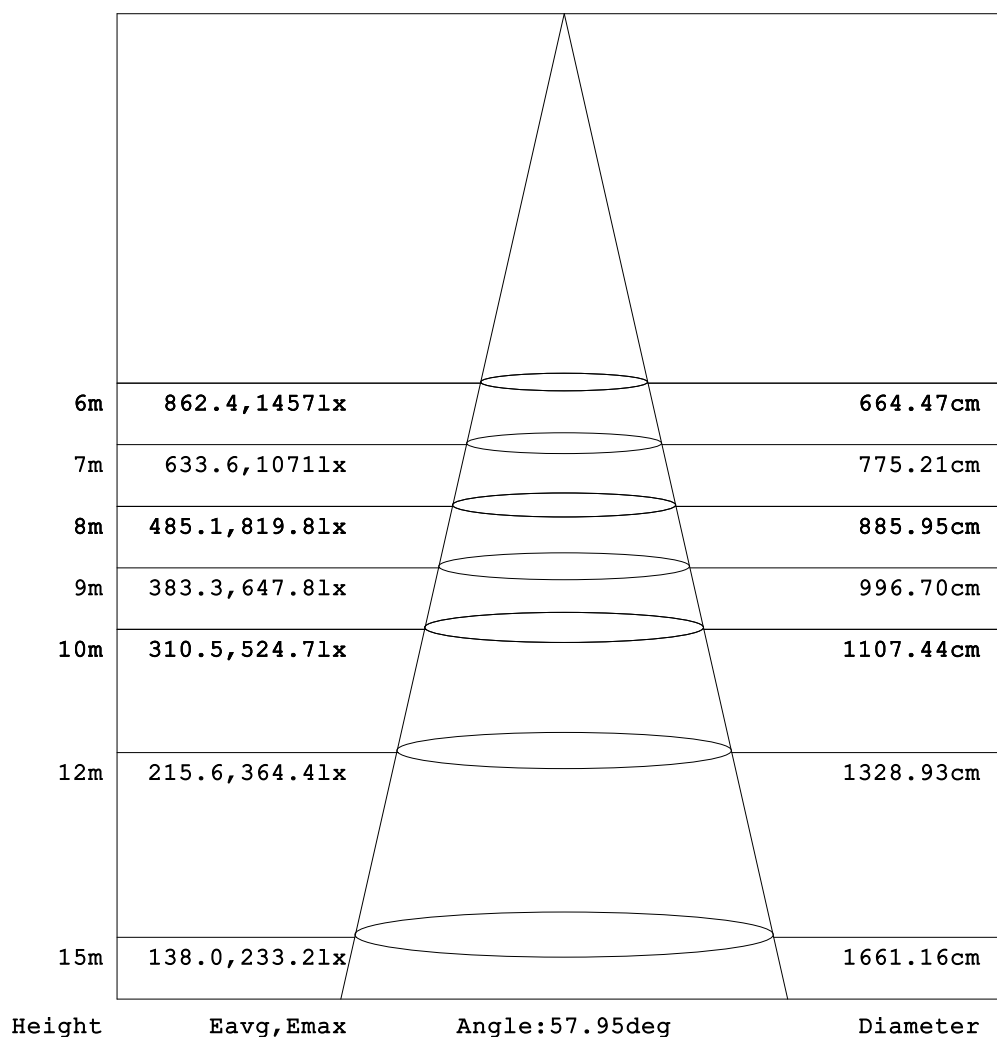
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:28 October 2019

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:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 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:29968 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: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:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 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	0.82	0.97	2.86	11.3	21.3	29.3	37.5	46.6	55.9	64.6	71.6	78.7	85.5	92.0	97.1	102	109	121	127
-75	0.81	1.34	7.12	20.9	37.9	52.9	66.8	79.1	93.6	105	115	125	134	142	148	152	157	165	171
-70	0.82	3.03	15.2	37.8	61.0	82.5	101	117	137	150	163	176	186	194	200	205	208	212	215
-65	0.80	3.44	18.1	48.8	81.2	107	131	151	170	187	202	216	229	239	247	252	255	258	261
-60	0.84	8.25	30.1	74.7	113	142	170	192	211	230	247	262	276	288	296	301	303	305	307
-55	0.81	7.06	30.8	79.9	125	159	189	214	237	257	277	295	312	329	343	354	364	370	374
-50	0.87	13.4	47.2	105	152	188	218	246	271	293	314	335	355	375	394	412	427	438	442
-45	0.84	11.0	46.2	106	158	198	231	261	288	314	341	372	406	447	507	583	656	712	736
-40	0.92	18.6	67.8	128	183	222	256	287	316	346	380	421	470	540	649	785	913	1002	1030
-35	0.86	14.5	63.3	123	184	226	263	297	329	364	411	482	623	839	1102	1374	1612	1780	1850
-30	0.95	23.5	83.3	143	204	246	284	320	355	399	464	586	852	1238	1665	2067	2393	2603	2669
-25	0.86	19.5	76.4	135	203	247	286	325	363	416	511	746	1155	1664	2185	2656	3036	3291	3398
-20	1.01	34.6	91.8	155	221	264	305	345	390	461	623	1046	1649	2301	2906	3414	3802	4047	4127
-15	0.87	26.5	83.0	142	215	261	303	345	392	468	663	1160	1845	2552	3194	3729	4145	4436	4551
-10	1.07	41.0	96.0	161	230	275	318	362	418	521	852	1532	2324	3075	3715	4230	4626	4904	4961
-5	0.85	30.6	86.1	146	222	269	312	357	411	504	797	1461	2272	3050	3721	4271	4693	4993	5112
0	1.21	42.3	98.3	167	234	280	324	370	431	550	956	1706	2542	3313	3967	4500	4900	5166	5245
5	0.90	30.4	86.1	146	222	269	313	357	409	500	780	1415	2205	2967	3628	4170	4584	4882	5018
10	1.26	40.7	95.9	162	231	276	318	361	415	510	802	1430	2183	2905	3525	4026	4406	4685	4784
15	1.01	28.8	83.1	143	216	262	304	345	390	459	629	1059	1688	2350	2959	3473	3877	4172	4310
20	1.27	38.4	92.1	157	222	266	307	346	387	448	577	921	1456	2051	2615	3101	3483	3745	3832
25	1.06	25.8	77.2	137	204	249	289	327	363	408	485	669	1008	1441	1900	2325	2678	2932	3047
30	1.25	33.3	83.7	145	206	249	287	322	354	392	443	530	719	1015	1363	1705	1991	2190	2264
35	1.11	21.3	68.2	125	186	229	267	300	331	362	399	452	552	712	912	1125	1317	1460	1527
40	1.25	27.4	73.0	130	184	225	260	292	319	345	373	404	439	485	547	627	710	771	793
45	1.15	15.9	56.4	107	160	200	235	265	293	317	340	364	390	418	454	499	547	584	602
50	1.26	19.5	58.0	106	153	190	222	250	276	297	317	335	351	365	378	391	401	409	412
55	1.19	9.72	41.6	81.8	125	160	191	217	240	261	280	297	312	326	336	344	350	354	356
60	1.28	11.7	39.5	75.3	112	142	171	194	213	233	250	265	279	291	297	300	300	300	301
65	1.23	4.56	25.2	51.1	79.3	105	130	150	170	187	203	217	230	241	247	251	253	255	256
70	1.29	3.75	20.5	38.2	57.6	79.0	97.6	114	133	148	161	175	186	194	199	203	206	209	212
75	1.26	1.89	9.60	21.9	35.3	50.2	64.3	76.2	90.3	102	112	122	132	140	146	150	155	164	171
80	1.29	1.50	2.99	10.8	19.1	27.4	35.8	44.0	52.6	60.7	67.1	74.1	81.2	88.1	93.7	99.2	108	122	130
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:219.96V I:1.9094A P:413.85W PF:0.9854 Freq:49.99Hz Lamp Flux:54459.2x1 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	119	109	104	99.7	94.6	88.1	81.3	74.8	67.9	59.1	50.9	41.5	32.1	23.6	12.6	4.08	1.56	0.75	
-75	168	161	157	154	149	142	133	123	114	103	89.2	76.2	62.8	46.9	28.7	11.5	3.75	0.83	
-70	214	212	209	206	200	192	181	168	156	142	122	106	87.3	63.8	36.8	14.8	3.85	0.69	
-65	261	260	258	255	249	240	228	215	200	185	165	145	123	95.7	62.8	25.3	8.41	0.88	
-60	307	308	307	303	295	284	270	255	239	220	200	176	149	116	72.1	26.3	7.92	0.63	
-55	374	370	363	354	341	327	310	293	275	255	232	207	178	143	98.4	43.7	13.9	0.93	
-50	439	430	416	400	382	363	344	324	303	281	255	226	194	155	103	41.2	12.3	0.58	
-45	722	676	608	534	471	427	392	361	334	308	281	251	218	179	125	65.7	18.5	0.98	
-40	992	897	771	641	541	475	427	387	355	326	296	263	227	184	123	64.1	14.8	0.58	
-35	1803	1656	1438	1180	923	691	526	441	390	352	319	284	247	206	145	82.8	23.9	1.01	
-30	2570	2338	2007	1613	1206	828	580	472	409	365	329	291	252	208	138	78.2	18.1	0.63	
-25	3316	3079	2739	2306	1815	1303	855	573	453	392	349	309	268	225	159	92.4	34.3	1.01	
-20	3987	3700	3311	2809	2219	1582	986	603	468	399	353	311	268	223	147	85.0	27.1	0.70	
-15	4420	4144	3784	3306	2717	2043	1351	789	521	427	371	327	283	238	170	98.7	43.0	1.03	
-10	4758	4459	4086	3584	2956	2224	1459	814	525	429	372	325	280	233	155	90.3	33.9	0.72	
-5	4965	4672	4299	3808	3200	2476	1690	970	570	449	385	337	291	245	177	102	45.4	1.19	
0	5070	4748	4336	3809	3170	2420	1613	899	546	439	378	330	284	236	157	91.5	34.4	0.56	
5	4892	4604	4227	3736	3130	2416	1650	951	564	447	384	337	292	245	178	103	45.8	1.36	
10	4616	4322	3941	3440	2819	2109	1387	782	515	425	371	326	281	235	157	91.3	34.6	0.52	
15	4203	3938	3577	3106	2533	1892	1256	749	508	422	370	328	284	239	173	100	44.3	1.40	
20	3702	3426	3043	2558	1997	1415	893	571	455	395	353	312	270	225	151	86.4	32.0	0.59	
25	2977	2760	2442	2046	1598	1150	773	540	440	387	348	310	270	227	163	94.4	40.7	1.38	
30	2184	1981	1695	1363	1016	719	534	451	400	362	329	293	254	210	143	80.0	28.9	0.64	
35	1495	1377	1202	997	791	612	488	424	383	350	320	286	250	208	149	85.3	35.5	1.35	
40	771	711	629	549	489	445	410	378	351	326	297	266	230	187	128	69.5	23.5	0.75	
45	595	565	521	475	436	406	380	355	332	309	283	254	220	182	129	72.6	28.7	1.31	
50	410	403	394	382	370	356	340	323	303	283	257	229	196	158	106	56.7	17.9	0.84	
55	356	354	350	344	334	323	308	293	275	256	234	209	179	145	101	55.8	20.8	1.29	
60	302	303	304	302	295	284	271	256	240	221	202	178	149	116	77.0	39.4	10.9	0.96	
65	256	256	255	254	249	240	228	214	200	184	165	145	122	95.3	65.5	36.2	12.2	1.26	
70	210	208	207	204	199	191	180	167	155	140	120	104	85.4	62.6	41.7	22.7	4.97	1.07	
75	167	159	154	151	146	140	131	122	112	102	87.8	74.8	61.8	46.2	31.3	16.5	5.13	1.25	
80	120	107	101	96.5	91.3	85.0	78.6	72.5	66.3	57.9	49.6	40.9	32.0	23.7	15.1	5.27	1.98	1.17	
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: