

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity	562.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	119.3V x 120.3H
	At 50% of Imax	84.0V x 83.5H
	At 90% of Imax	46.5V x 46.9H

Beam Flux	Total	999.0 lumens per klm.
	To 10% of Imax	925.1 lumens per klm.
	To 50% of Imax	710.9 lumens per klm.
	To 90% of Imax	277.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

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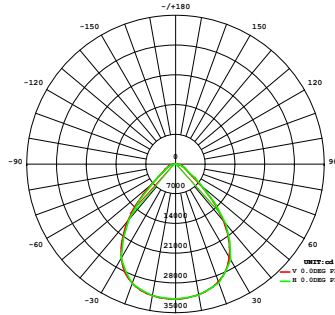
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 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:136.48lm/W	
	NJZ-EMD120-V01-RZ-90-PC-U-GR		Imax(cd)	31757
	NOMINAL POWER(W)	420	AVAILABILITY(%)	92.4
	RATED VOLTAGE(V)	220	Avai. FLUX(lm)	52198
	NOMINAL FLUX(lm)	56476.5	LOR(%)	100.0
	LAMPS INSIDE	1	TOTAL FLUX(lm)	56476
	TEST VOLTAGE(V)	220	θ @50% (H,V)	84,84DEG

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	0.09	1.39	5.37	11.4	18.9	26.5	34.0	39.1	41.3	41.7	40.2	35.8	28.6	20.8	13.0	6.44	1.91	0.14	367	0.00
70	0.24	3.56	11.6	22.2	34.4	47.0	58.6	66.4	70.3	70.8	67.9	60.7	49.3	36.5	24.1	12.9	4.21	0.34	641	0.00
60	0.46	5.94	17.6	32.7	50.2	70.3	93.3	118	135	135	119	95.7	73.0	52.8	34.8	19.0	6.61	0.58	1060	571
50	0.67	7.69	22.0	41.3	67.7	114	191	275	330	331	277	193	117	70.1	43.4	23.5	8.44	0.81	2113	1892
40	0.86	9.08	25.6	50.0	98.8	221	404	562	645	646	563	404	223	101	52.0	27.1	9.85	0.99	4044	3895
30	1.01	10.1	28.6	60.1	158	376	611	775	850	851	775	612	378	159	61.9	30.1	10.9	1.14	5748	5631
	1.11	10.8	30.9	71.9	226	489	723	870	936	936	871	725	489	226	73.2	32.3	11.6	1.24	6725	6626
	1.15	11.2	32.1	81.6	267	538	761	896	957	960	903	769	542	268	82.6	33.6	12.0	1.29	7118	7026
	1.16	11.2	32.3	83.3	271	539	758	890	951	956	902	770	544	270	83.5	33.5	11.9	1.27	7108	7016
	1.10	10.8	31.0	74.9	236	494	715	854	921	926	868	729	499	236	75.7	32.3	11.5	1.22	6717	6620
-30	0.98	10.2	28.8	62.7	175	398	620	771	845	849	783	630	400	172	63.4	29.9	10.7	1.09	5849	5737
-40	0.76	9.12	25.8	51.1	109	257	447	599	678	681	606	450	257	109	52.6	26.9	9.68	0.90	4369	4227
-50	0.54	7.72	22.1	41.9	69.4	128	234	340	405	406	341	232	127	70.4	43.2	23.1	8.23	0.65	2500	2288
-60	0.35	5.86	17.7	32.9	50.6	68.5	91.9	124	149	149	124	93.2	70.2	52.1	34.3	18.7	6.38	0.44	1089	671
-70	0.19	3.66	12.1	23.0	35.2	47.4	56.8	60.8	61.6	62.0	61.9	58.0	48.6	36.5	24.2	13.0	4.06	0.26	609	0.00
-80	0.06	1.40	5.64	11.7	18.9	26.1	32.7	36.7	38.4	38.7	37.4	33.7	27.2	19.9	12.7	6.38	1.77	0.11	349	0.00
-90	0.01	0.09	0.60	1.74	3.37	5.06	6.80	8.12	8.63	8.70	8.32	7.12	5.44	3.74	2.07	0.81	0.17	0.01	70.8	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	10.7	120	350	755	1890	3845	5837	7285	8022	8047	7348	5900	3876	1903	777	369	130	12.5	56476	---
Φ a	0.00	0.00	0.00	408	1605	3580	5578	7032	7782	7806	7097	5639	3612	1617	440	1.43	0.00	0.00	---	52198

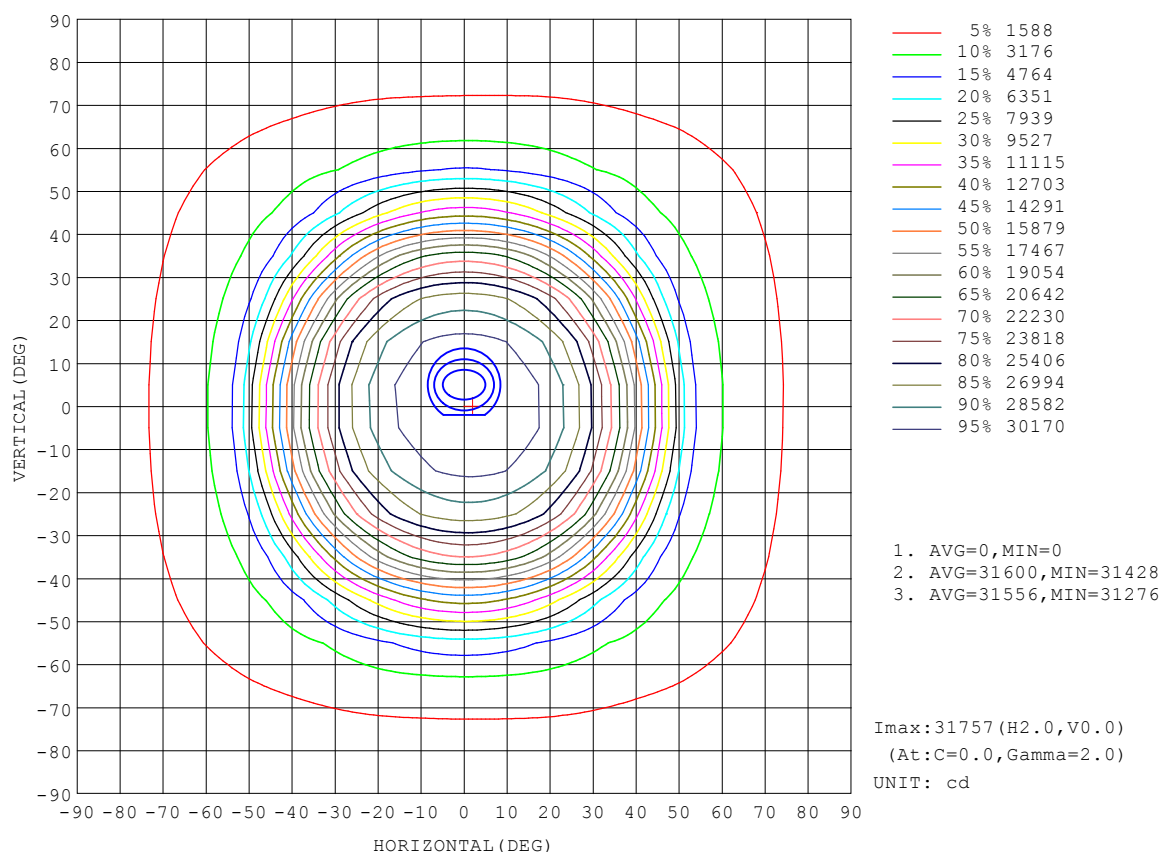
one-half-peak spread: U:42.8,D:41.5 , L:43.9,R:39.9 NEMA Beam Type: Type 6

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:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 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

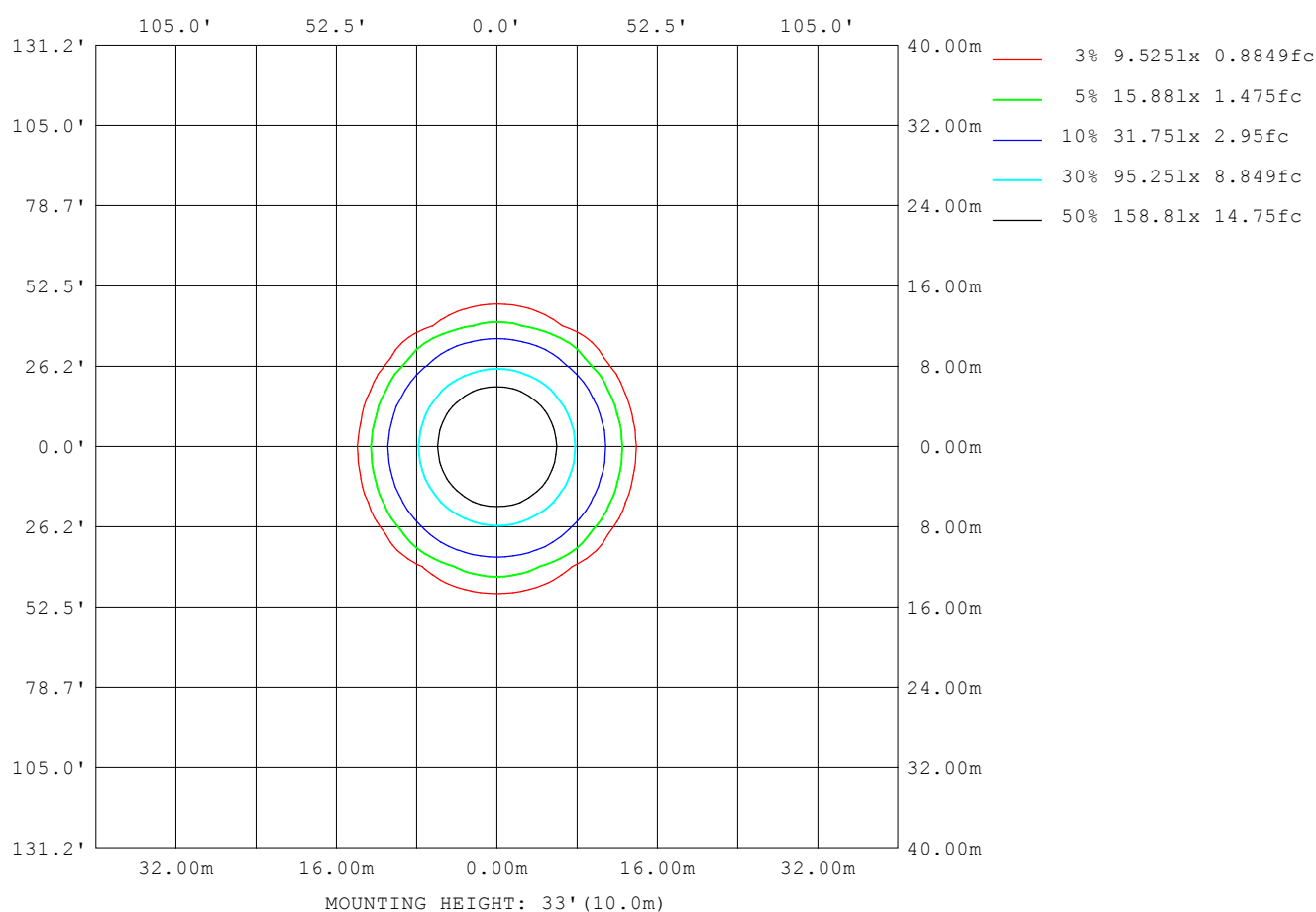


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:28 October 2019

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

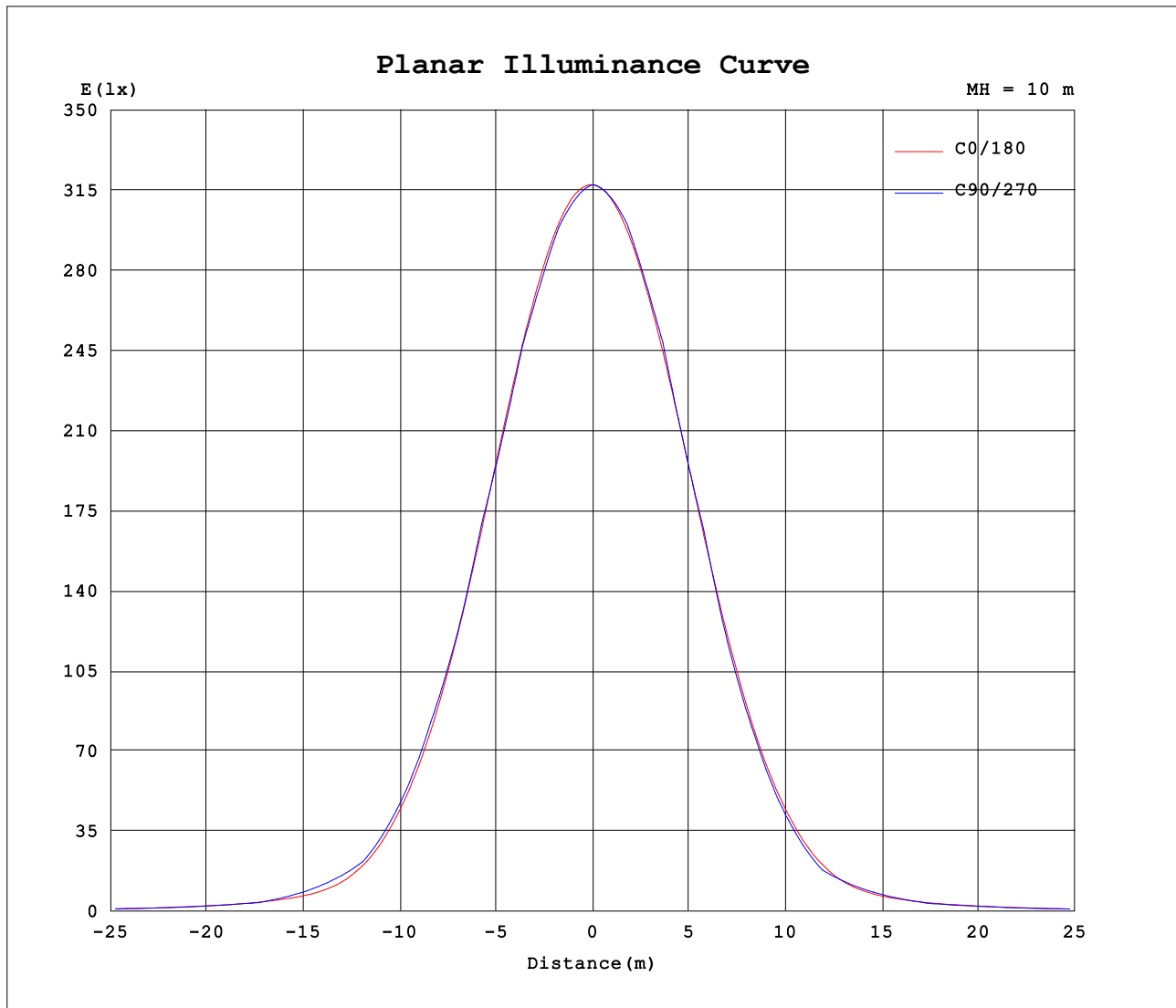
Test:U:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 lm		
NAME: LED High Bay Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:420W	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



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



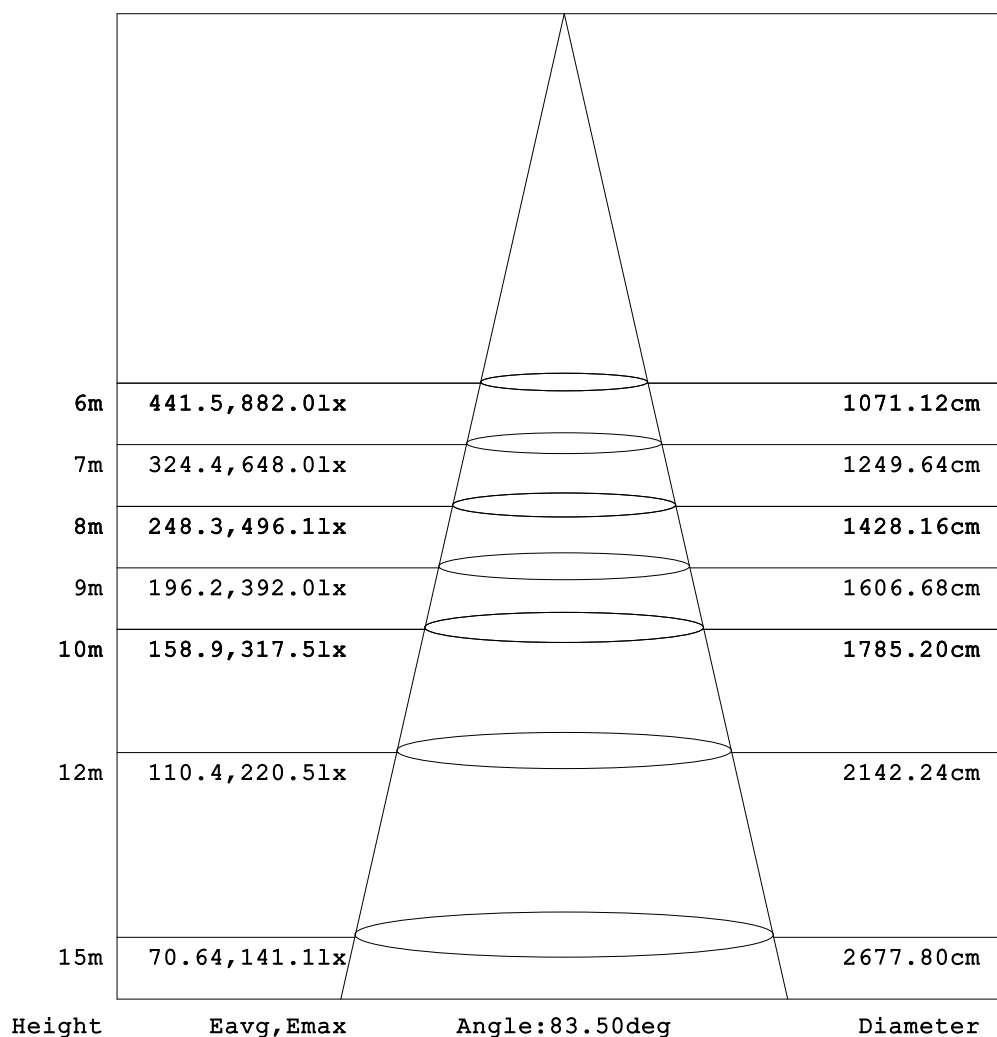
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:28 October 2019

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:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 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:40480 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:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 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	0.62	0.75	1.67	6.31	13.3	20.4	27.8	35.4	43.1	50.2	56.0	62.1	68.0	73.1	77.0	79.7	81.2	81.7	81.9
-75	0.63	1.15	5.88	16.9	30.9	43.9	54.9	66.7	78.4	87.7	96.5	105	114	120	125	128	130	131	132
-70	0.63	1.56	10.1	27.5	48.6	67.4	82.1	98.1	114	125	137	149	159	168	174	177	179	181	182
-65	0.64	3.01	16.2	42.8	69.7	92.3	111	130	148	163	179	194	209	222	232	239	244	247	249
-60	0.65	4.47	22.3	58.1	90.8	117	140	162	182	201	221	240	258	275	290	301	309	314	316
-55	0.66	6.38	29.0	70.8	107	135	162	188	213	239	268	302	342	390	442	491	532	559	568
-50	0.68	8.30	35.8	83.6	123	154	184	214	244	277	316	363	426	505	594	681	754	803	820
-45	0.70	10.4	43.6	93.5	135	169	203	239	279	332	414	537	691	855	1010	1144	1246	1310	1333
-40	0.71	12.4	51.3	103	148	185	223	263	313	386	513	711	955	1206	1427	1606	1737	1817	1846
-35	0.74	14.0	57.9	111	157	197	240	289	362	499	723	1010	1312	1591	1822	1999	2123	2196	2223
-30	0.76	15.6	64.4	118	167	209	256	315	411	612	934	1310	1669	1976	2217	2392	2508	2575	2600
-25	0.78	18.7	68.1	124	174	219	271	344	489	776	1163	1566	1927	2222	2445	2601	2704	2764	2788
-20	0.80	21.7	71.8	131	181	229	286	372	566	940	1392	1821	2184	2469	2673	2811	2900	2954	2976
-15	0.83	24.0	73.3	134	185	235	297	397	637	1058	1530	1961	2314	2585	2774	2899	2980	3030	3051
-10	0.85	26.3	74.7	138	189	241	307	421	708	1177	1669	2101	2445	2701	2875	2988	3061	3106	3127
-5	0.87	26.8	75.4	139	191	244	311	432	739	1221	1713	2145	2486	2740	2911	3021	3090	3133	3151
0	0.89	27.3	76.0	141	193	246	315	443	770	1266	1757	2189	2528	2779	2947	3053	3119	3159	3175
5	0.91	26.7	75.1	139	191	243	310	427	730	1209	1702	2139	2487	2748	2924	3037	3106	3146	3162
10	0.94	26.0	74.2	137	189	240	305	412	691	1152	1647	2090	2446	2716	2902	3021	3093	3134	3149
15	0.95	25.1	72.7	134	185	234	294	387	611	1020	1495	1935	2304	2592	2796	2930	3011	3057	3072
20	0.96	24.3	71.2	130	181	228	283	362	531	888	1343	1780	2162	2468	2691	2839	2930	2980	2995
25	0.98	22.4	67.7	124	173	218	268	334	459	721	1097	1500	1874	2189	2428	2596	2701	2760	2779
30	1.00	20.5	64.2	117	166	208	254	307	387	554	851	1219	1586	1909	2166	2353	2473	2540	2563
35	1.01	18.5	59.5	110	157	196	237	283	344	457	652	917	1210	1490	1730	1914	2042	2115	2140
40	1.02	16.6	54.9	102	147	183	220	258	302	359	453	614	833	1072	1295	1475	1611	1690	1717
45	1.04	13.7	48.5	92.6	134	168	201	234	270	313	376	475	605	751	894	1018	1116	1177	1198
50	1.05	10.9	42.1	82.9	122	153	182	211	239	268	299	335	378	430	493	560	621	664	679
55	1.06	8.33	34.9	70.8	106	134	160	185	209	232	257	284	313	346	384	422	455	478	487
60	1.08	5.78	27.6	58.8	89.5	115	139	160	178	197	215	232	248	263	274	283	289	293	295
65	1.08	4.03	20.1	43.5	68.1	90.2	109	127	144	159	174	188	202	213	222	228	232	235	236
70	1.09	2.28	12.5	28.2	46.8	65.1	79.4	94.8	110	122	133	145	156	164	170	173	175	177	178
75	1.09	1.75	7.35	17.3	29.6	42.1	53.0	64.3	75.7	84.9	93.3	102	111	117	123	126	127	128	129
80	1.09	1.23	2.19	6.37	12.3	19.1	26.6	33.7	40.9	47.9	53.2	59.3	65.4	70.8	75.0	78.0	79.6	80.1	80.3
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:220.13V I:1.9078A P:413.81W PF:0.9854 Freq:49.99Hz Lamp Flux:56476.5x1 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	82.3	82.3	81.4	79.3	75.7	71.0	65.5	59.8	54.1	47.0	39.7	32.4	24.4	17.0	9.44	3.35	1.33	0.75	
-75	132	132	131	128	124	117	110	101	92.3	83.3	72.3	60.3	49.4	36.2	21.0	8.54	2.22	0.75	
-70	182	181	180	177	172	164	154	142	131	120	105	88.2	74.4	55.5	32.5	13.7	3.11	0.75	
-65	249	246	242	236	226	213	199	184	169	154	137	118	99.3	76.4	48.0	19.8	5.17	0.76	
-60	316	312	305	294	280	263	245	226	208	189	169	147	124	97.4	63.5	25.9	7.24	0.76	
-55	560	533	493	445	394	347	307	274	246	220	195	170	143	114	76.7	33.4	9.62	0.77	
-50	804	755	681	595	508	430	368	321	284	252	222	192	162	130	89.9	40.8	12.0	0.77	
-45	1314	1252	1150	1013	854	688	534	415	337	285	246	211	177	143	99.5	50.2	13.6	0.78	
-40	1825	1750	1618	1431	1199	945	700	509	389	319	271	230	192	156	109	59.5	15.2	0.78	
-35	2206	2141	2022	1842	1601	1314	1010	721	498	368	297	248	205	166	117	64.8	17.1	0.78	
-30	2587	2531	2425	2253	2003	1683	1320	933	607	416	323	265	218	176	126	70.1	19.0	0.77	
-25	2778	2731	2640	2488	2258	1948	1576	1159	765	486	350	280	228	182	131	72.9	23.1	0.76	
-20	2970	2931	2854	2724	2514	2214	1833	1385	922	556	377	294	238	189	137	75.7	27.1	0.75	
-15	3047	3014	2946	2827	2634	2349	1979	1531	1053	631	402	306	245	194	142	77.8	29.0	0.77	
-10	3124	3096	3037	2930	2754	2485	2124	1678	1183	707	428	317	252	200	147	79.9	30.8	0.78	
-5	3148	3121	3062	2958	2786	2522	2164	1719	1219	731	436	321	254	201	149	80.3	31.1	0.80	
0	3172	3145	3087	2985	2818	2558	2204	1760	1254	756	444	324	256	203	150	80.8	31.4	0.82	
5	3156	3124	3060	2953	2778	2512	2152	1707	1208	724	433	320	254	202	149	80.6	31.4	0.86	
10	3139	3102	3033	2920	2739	2465	2100	1653	1161	693	422	317	253	201	149	80.5	31.4	0.91	
15	3058	3014	2934	2806	2606	2314	1939	1493	1022	612	396	305	246	196	145	78.6	30.2	0.92	
20	2978	2927	2835	2693	2472	2163	1778	1333	884	532	370	294	239	191	141	76.7	28.9	0.93	
25	2761	2702	2597	2433	2193	1877	1505	1098	723	465	344	280	230	184	135	73.9	27.3	0.95	
30	2543	2477	2358	2174	1915	1591	1233	863	563	397	319	266	220	177	129	71.1	25.8	0.96	
35	2118	2046	1920	1735	1493	1213	927	662	466	355	295	249	207	167	120	66.2	23.3	0.98	
40	1693	1615	1481	1295	1071	836	621	460	369	313	270	232	194	158	112	61.3	20.8	1.00	
45	1179	1120	1024	898	755	611	484	386	324	282	247	213	179	145	102	55.1	18.3	1.02	
50	666	625	567	500	438	387	346	311	280	251	223	194	164	133	92.3	49.0	15.8	1.04	
55	480	459	428	391	355	322	294	268	244	221	197	172	145	116	79.5	41.1	12.6	1.06	
60	295	293	289	282	271	258	242	225	208	190	171	149	126	98.6	66.7	33.3	9.52	1.08	
65	236	235	233	229	221	211	198	184	170	155	138	119	99.9	77.1	51.1	25.5	6.82	1.10	
70	178	178	178	176	171	163	154	142	131	120	105	88.0	74.2	55.5	35.5	17.7	4.12	1.12	
75	129	129	129	127	123	117	110	101	92.6	83.6	72.4	60.5	49.5	36.5	23.2	10.8	2.95	1.14	
80	80.8	81.4	80.5	78.5	75.0	70.8	65.5	60.0	54.5	47.4	39.9	32.9	24.8	17.5	10.8	4.00	1.79	1.16	
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: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: