



300W QUATTRO EXPLOSION PROOF FLOOD LIGHT

 VOL-EPF-300-CW



SECTION 1: SPECIFICATIONS

POWER	300W
VOLTAGE	100-227V
CCT	5500-6500K (CW)
OPERATIONAL TEMPERATURE	-40°-65°C
LUMENS	30,000
IP RATING	67
LIGHT OUTPUT	80-90 lm/W
BEAM ANGLE	120°
WEIGHT	15 kg
FIXTURE COLOR	AVAILABLE IN YELLOW & GREY
CERTIFICATION	CLASS I, DIVISION II

CERTIFICATIONS



SECTION 2: CERTIFICATIONS MET

THIS LED FLOOD LIGHT IS CERTIFIED FOR HAZARDOUS AREA LIGHTING ZONES

HOUSING: EXPLOSION PROOF ALUMINUM ALLOY

GLASS: TEMPERED GLASS. 95% LIGHT TRANSMIT, SHOCK & VIBRATION RESISTANT

LED: CERTIFIED, HIGH EFFICACY, LOW DECAY

PCB: ALUMINUM THICKNESS 2.5mm, COPPER 2OZ, HEAT TRANSMIT 2.5

DRIVER: MEAN WELL HLG SERIES, 90% DRIVER EFFICACY, UL CERTIFY

SECTION 3: LIGHT SOURCE DESCRIPTION (LED CHIP)

LED SHAPE	SMD
LEDS LUMINOUS EFFICIENCY	100 lm/W
LED TYPE	SMD CREE LED CHIP

SECTION 4: ADDITIONAL BENEFITS OF THE FLOOD LIGHT

LONG TERM INVESTMENT

LED Light fixtures feature a robust, protective design gives this luminaire an IP of 67 and the ability to handle harsh environments. The specially designed heat sink does not let dust easily collect, while also allowing more air to flow Through it, providing for greater heat dissipation and, in turn, improving the performance of a long-lasting, durable luminaire. LED Fixtures additionally use a lot less energy and pay for themselves with the energy savings.

INSTANT START UP AND RESTRIKE TIME

LED Light fixtures do not require a filament to warm up or cool down before the maximum amount of light can be achieved. The lifespan of an LED fixture is not affected by switching on and off.

SECTION 5: APPLICATION

OIL & GAS OFFSHORE PLATFORM, TRANSPORT AND STORAGE, REFINERY, CHEMICAL INDUSTRIES

LAND/DRILLING RIGS, MINING, PAINTING/COATING PLANTS

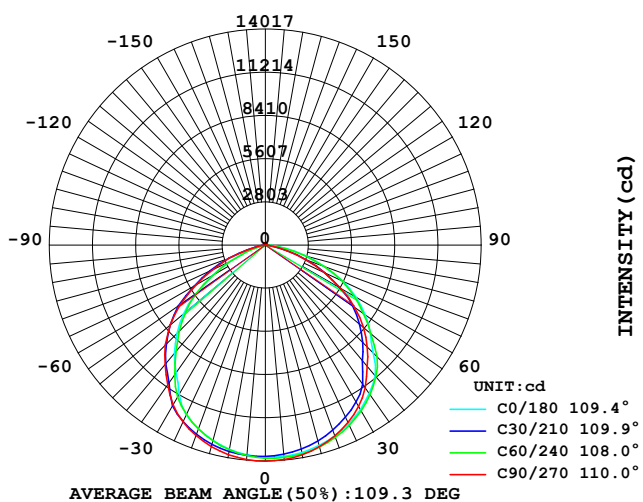
MILITARY, AIRPORT, AEROSPACE INDUSTRY, ETC.

SECTION 6: LUMINAIRE PHOTOMETRIC TEST REPORT

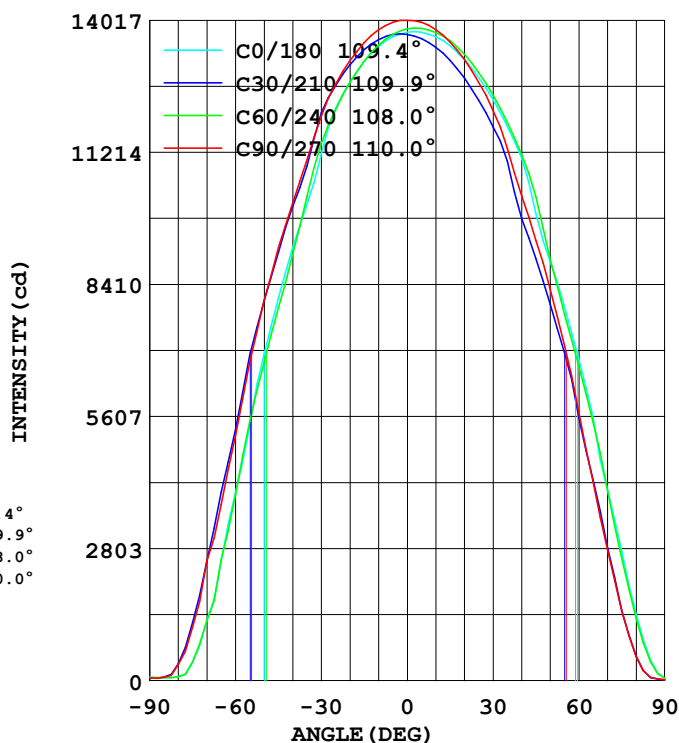
MANUFACTURER: VOLLNER	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:B	DIMENSION:	SERIAL No.

DATA OF LAMP		Imax (cd)	14084	S/MH (C0/180)	1.20
MODEL	.	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.26
NOMINAL POWER (W)	300	TOTAL FLUX (lm)	37223	Voltage (V)	216.6
RATED VOLTAGE (V)	216	EFFICIENCY (lm/W)	124.2	Current (A)	1.419
NOMINAL FLUX (lm)	37222.8	η up (%)	1.4	Power (W)	299.7
LAMPS QUANTITY	1	η down (%)	98.6	Power Factor (PF)	0.974
TEST VOLTAGE (V)	216.7	Effective Flux (lm)	36090.8	EEI	0.113

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION

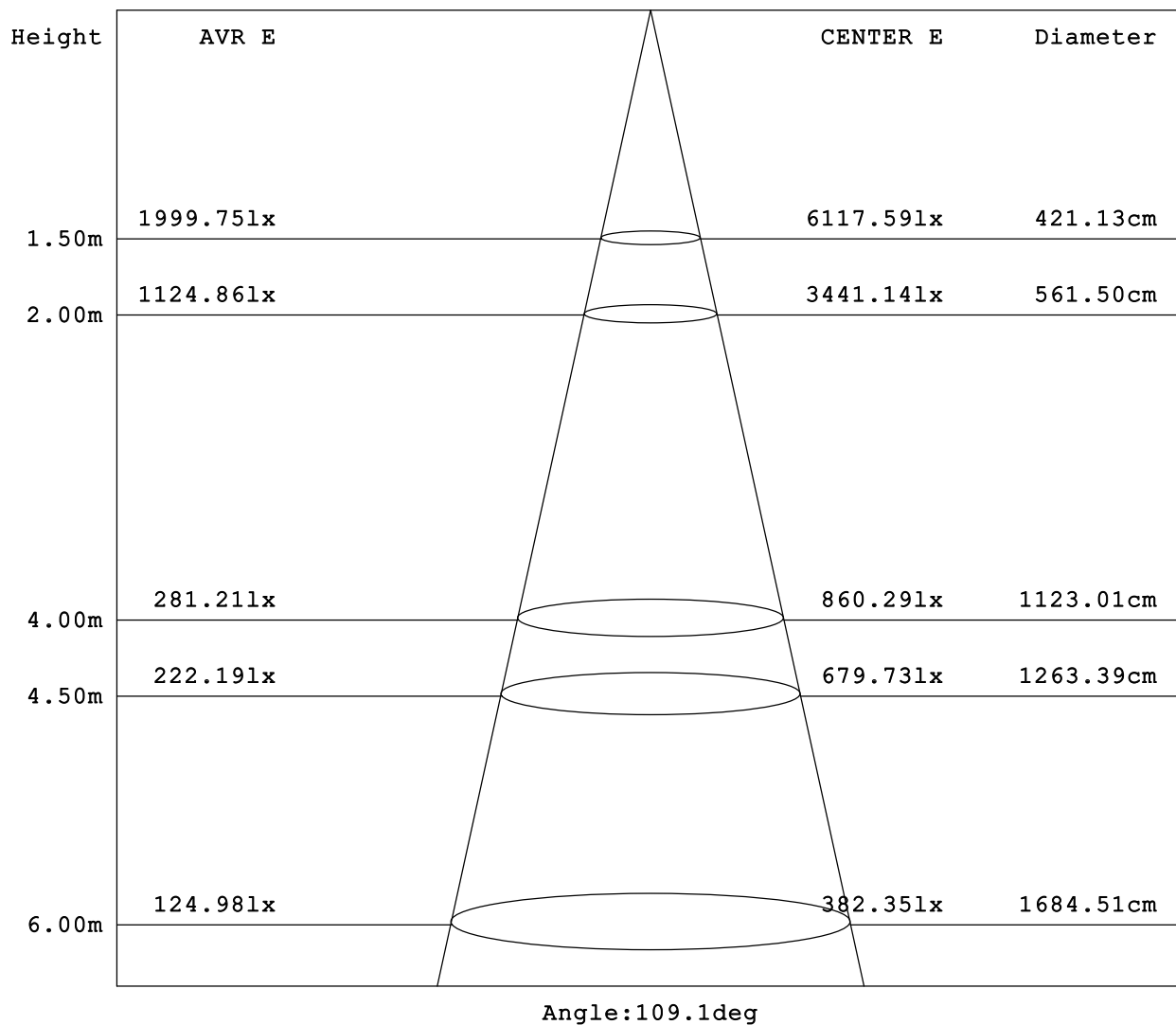


Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 08-03-2019

Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 9.000 m
Remarks:

AVERAGE AND CENTER E FIGURE

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NAME:	TYPE:	WEIGHT:
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ZONAL FLUX DIAGRAM

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NAME:	TYPE:	WEIGHT:
SPECIFICATION: B	DIMENSION:	SERIAL No.: 1#

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1366	1371	1397	1391	1376	1373	1397	1403	0- 5	331.6	331.6
10.0	1346	1355	1381	1368	1366	1360	1382	1394	5- 10	985.1	1317
15.0	1314	1327	1355	1335	1348	1337	1355	1375	10- 15	1609	2926
20.0	1270	1289	1316	1289	1318	1304	1318	1344	15- 20	2183	5109
25.0	1215	1238	1266	1229	1280	1261	1270	1302	20- 25	2690	7799
30.0	1118	1173	1198	1149	1234	1210	1211	1249	25- 30	3103	10902
35.0	1011	1060	1105	1066	1177	1144	1130	1180	30- 35	3392	14294
40.0	918.0	955.0	1012	966.2	1109	1048	1028	1087	35- 40	3545	17840
45.0	812.3	850.8	919.5	861.4	991.6	961.7	934.3	991.7	40- 45	3576	21416
50.0	691.8	739.8	806.5	722.7	889.3	846.1	829.7	880.9	45- 50	3464	24880
55.0	541.1	619.6	675.6	588.0	791.6	735.2	709.6	760.7	50- 55	3213	28093
60.0	400.2	464.5	520.9	452.6	682.5	613.4	570.6	637.3	55- 60	2823	30916
65.0	252.7	328.3	374.0	311.9	558.2	486.6	421.2	493.2	60- 65	2293	33209
70.0	127.4	189.5	253.8	169.3	404.5	342.4	277.2	359.2	65- 70	1681	34890
75.0	39.90	82.17	114.2	69.31	274.5	205.1	148.1	218.3	70- 75	1059	35949
80.0	8.699	22.06	34.46	21.17	142.1	93.04	51.17	101.6	75- 80	522.9	36472
85.0	6.164	6.897	7.427	6.816	43.86	23.28	7.071	27.98	80- 85	189.3	36661
90.0	6.876	6.313	5.678	6.382	4.519	3.175	1.401	3.009	85- 90	50.78	36712
95.0	7.727	7.213	6.585	7.290	0.899	1.320	1.620	1.182	90- 95	24.21	36736
100.0	8.569	8.152	7.581	8.249	1.409	1.790	2.057	1.615	95-100	24.88	36761
105.0	9.379	9.051	8.561	9.173	2.033	2.353	2.583	2.150	100-105	28.36	36790
110.0	10.22	9.963	9.541	10.04	2.689	2.940	3.118	2.733	105-110	31.57	36821
115.0	11.10	10.87	10.35	10.83	3.345	3.551	3.669	3.333	110-115	34.30	36855
120.0	11.96	11.76	11.11	11.57	4.025	4.159	4.147	3.892	115-120	36.40	36892
125.0	12.70	12.59	11.79	12.26	4.754	4.787	4.665	4.394	120-125	37.76	36930
130.0	13.32	13.32	12.43	12.91	5.475	5.418	5.240	4.932	125-130	38.33	36968
135.0	13.87	13.97	13.08	13.55	6.156	6.103	5.888	5.536	130-135	38.20	37006
140.0	14.45	14.55	13.65	14.13	6.917	6.893	6.706	6.257	135-140	37.44	37044
145.0	14.95	15.05	14.09	14.64	7.751	7.796	7.654	7.083	140-145	35.97	37080
150.0	15.32	15.47	14.45	15.09	8.699	8.772	8.691	7.994	145-150	33.78	37113
155.0	15.55	15.79	14.75	15.38	9.760	9.853	9.833	8.991	150-155	30.77	37144
160.0	15.56	15.90	15.00	15.49	10.84	10.92	10.91	10.01	155-160	26.82	37171
165.0	15.41	15.82	15.21	15.46	11.76	11.93	11.91	11.05	160-165	21.96	37193
170.0	15.13	15.60	15.21	15.18	12.59	12.91	12.90	12.17	165-170	16.33	37209
175.0	14.69	15.23	14.95	14.72	13.33	13.82	13.77	13.17	170-175	10.08	37219
180.0	14.06	14.28	13.85	13.69	14.61	14.91	14.49	14.38	175-180	3.410	37223
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm	

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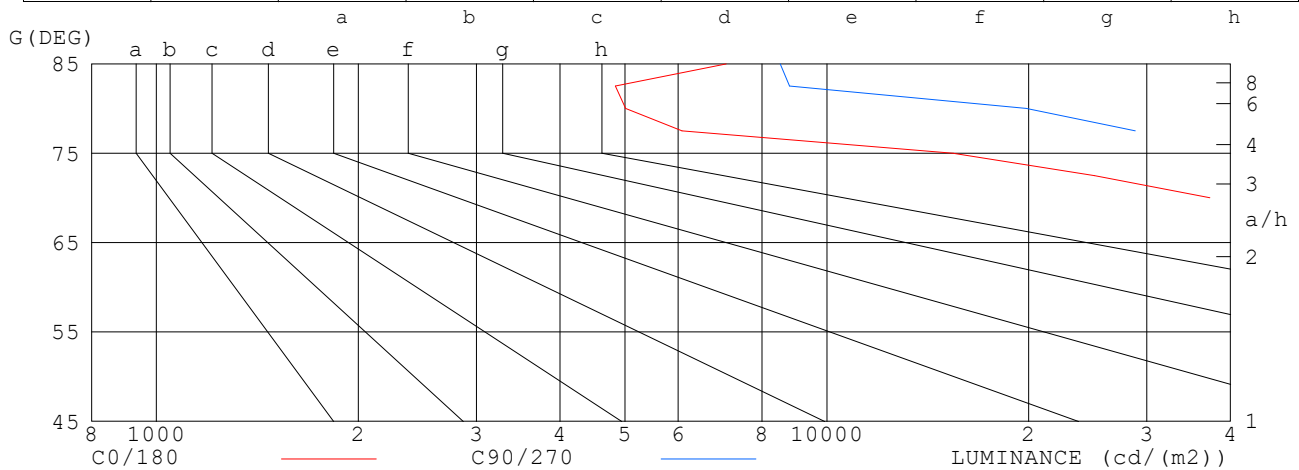
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LUMINANCE LIMITATION CURVES

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LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



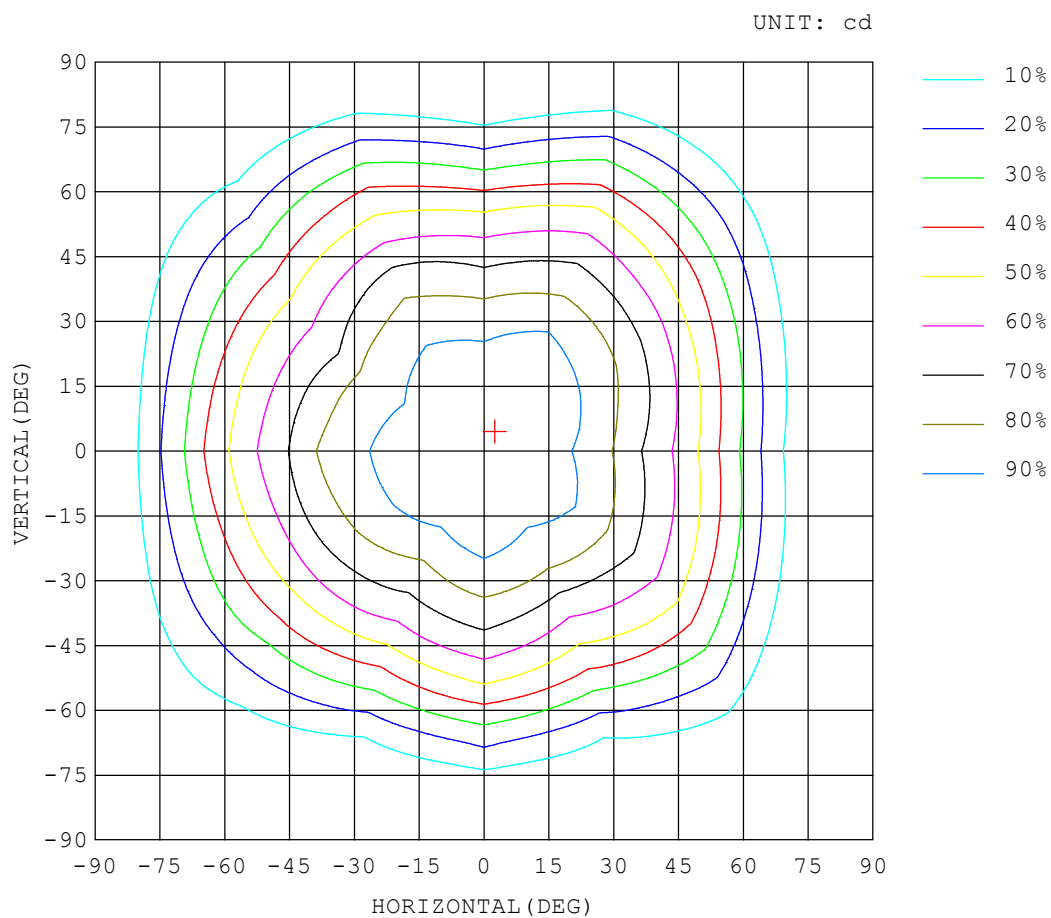
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7073	8522
80	5010	19848
75	15420	44140
70	37272	74217
65	59802	88512
60	80047	104182
55	94349	117794
50	107637	125478
45	114878	130046

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