

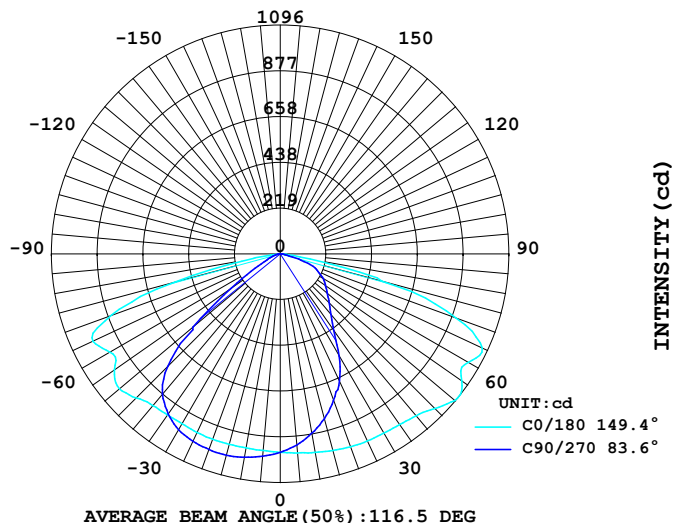
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

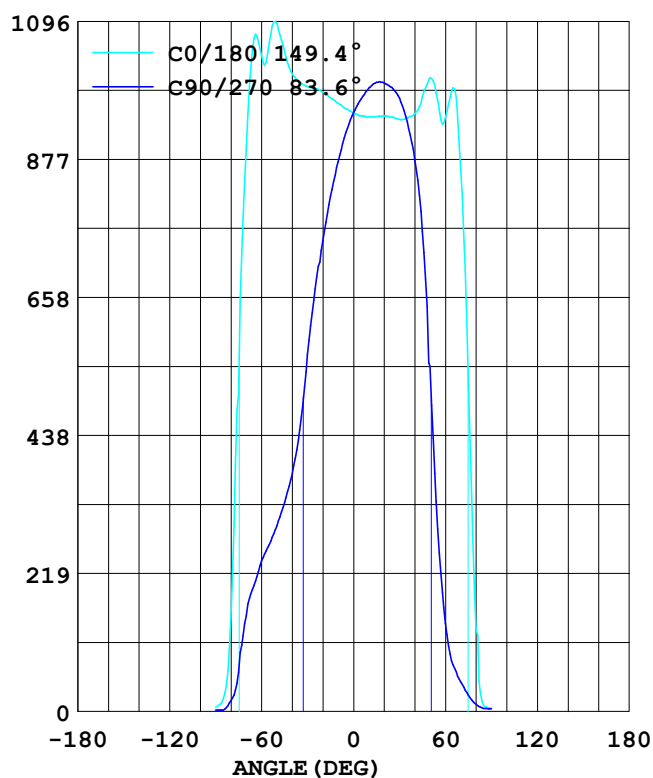
MANUFACTURER: Red Arrow Electrical Ltd			
Address:			
NAME: ORN20-T3-N3-740		TYPE: 4000K/5700K	WEIGHT:
SPECIFICATION: 3030 LED	CCT (K) : 0	DIMENSION: T3	SERIAL No. :

DATA OF LAMP		Imax (cd)	1096	S/MH (C0/180)	1.61
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	0.98
NOMINAL POWER (W)	20	TOTAL FLUX (lm)	3009.1	Voltage (V)	230.5
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	148.6	Current (A)	0.096
NOMINAL FLUX (lm)	3009.2	$\eta$ up (%)	0.0	Power (W)	20.25
LAMPS QUANTITY	1	$\eta$ down (%)	100.0	Power Factor (PF)	0.920
TEST VOLTAGE (V)	230.5	Effective Flux (lm)	3009.2	EEL	0.101

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



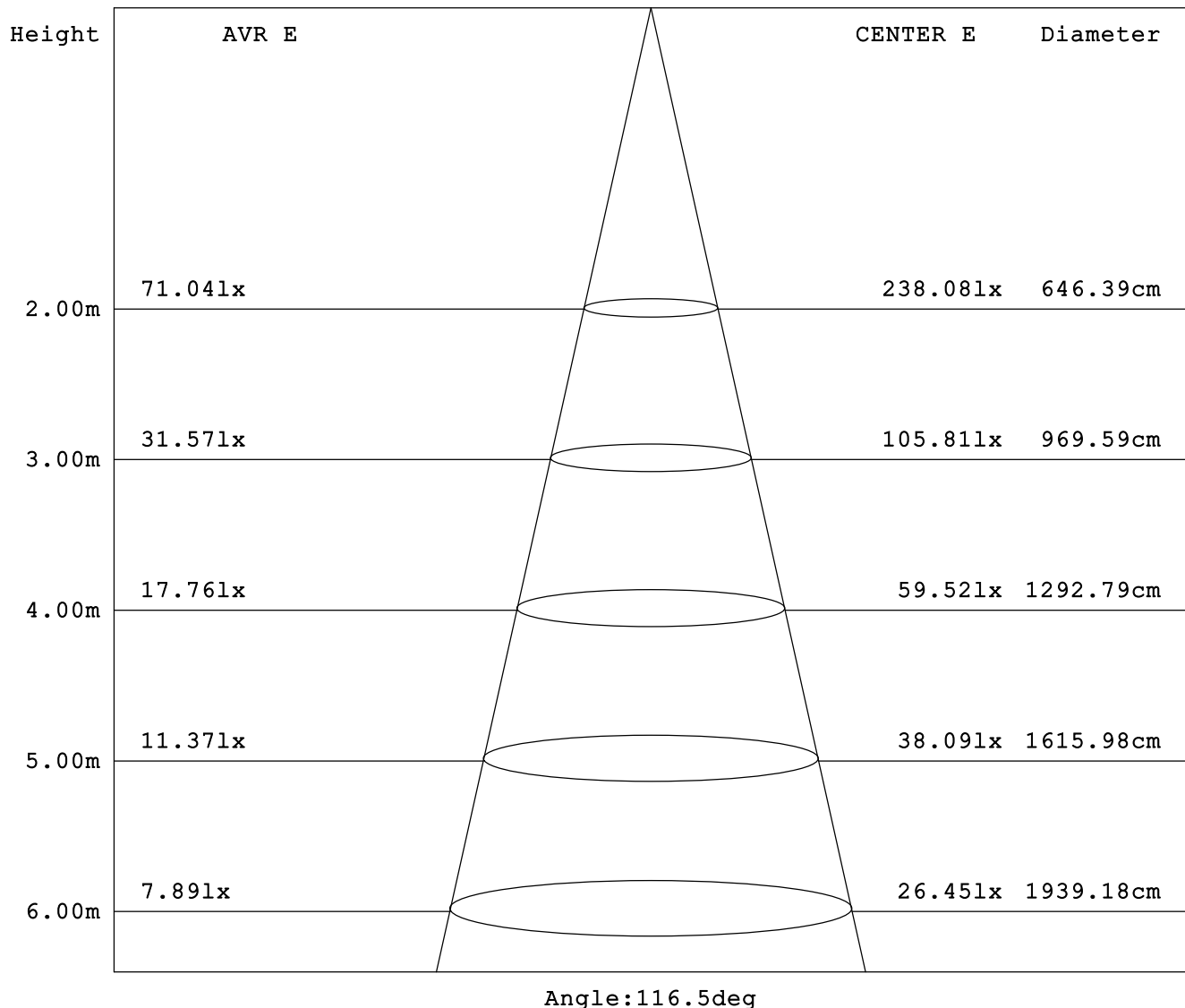
Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.08.18

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Red Arrow Electrical Ltd			
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 Operators:  
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 Remarks:

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Red Arrow Electrical Ltd			
Address:			
NAME: ORN20-T3-N3-740		TYPE: 4000K/5700K	WEIGHT:
SPECIFICATION: 3030 LED	CCT (K) : 0	DIMENSION: T3	SERIAL No. :

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	Zone	total
5.0	957.5	934.2	919.4	927.0	946.0	963.1	972.6	971.5	0- 5	22.71	22.71
10.0	966.4	912.3	873.3	899.7	944.5	973.5	990.0	988.2	5- 10	67.69	90.41
15.0	974.9	886.9	818.4	868.2	945.1	982.6	999.2	1002	10- 15	111.4	201.8
20.0	983.9	854.4	747.4	831.8	946.1	987.6	998.4	1012	15- 20	152.9	354.7
25.0	989.5	813.9	671.1	786.8	944.3	988.6	991.1	1016	20- 25	191.0	545.8
30.0	992.9	764.6	567.1	733.6	940.4	985.5	973.8	1015	25- 30	224.4	770.3
35.0	999.1	708.1	447.6	676.2	942.9	976.6	936.5	1006	30- 35	251.8	1022
40.0	1013	622.2	377.9	589.8	949.3	958.2	877.7	986.7	35- 40	272.5	1295
45.0	1048	564.6	332.4	528.7	976.4	926.0	762.4	950.7	40- 45	286.7	1581
50.0	1093	519.7	295.1	487.5	1007	866.1	547.6	887.0	45- 50	295.1	1877
55.0	1062	471.3	265.4	430.6	970.2	715.2	289.7	718.0	50- 55	286.1	2163
60.0	1041	400.0	239.7	358.4	942.8	516.0	139.9	522.5	55- 60	252.7	2416
65.0	1069	317.4	200.0	275.6	990.6	394.8	74.07	386.6	60- 65	223.3	2639
70.0	893.5	227.1	151.8	188.4	859.8	231.5	46.86	207.1	65- 70	187.5	2826
75.0	503.8	108.3	62.05	97.49	518.8	57.61	25.84	44.76	70- 75	117.6	2944
80.0	147.5	40.26	16.93	35.72	129.2	19.60	11.43	19.12	75- 80	49.05	2993
85.0	19.40	12.78	2.321	11.42	9.636	7.031	5.017	7.151	80- 85	12.47	3006
90.0	6.776	5.427	2.389	4.750	5.482	4.522	4.096	4.103	85- 90	3.552	3009
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

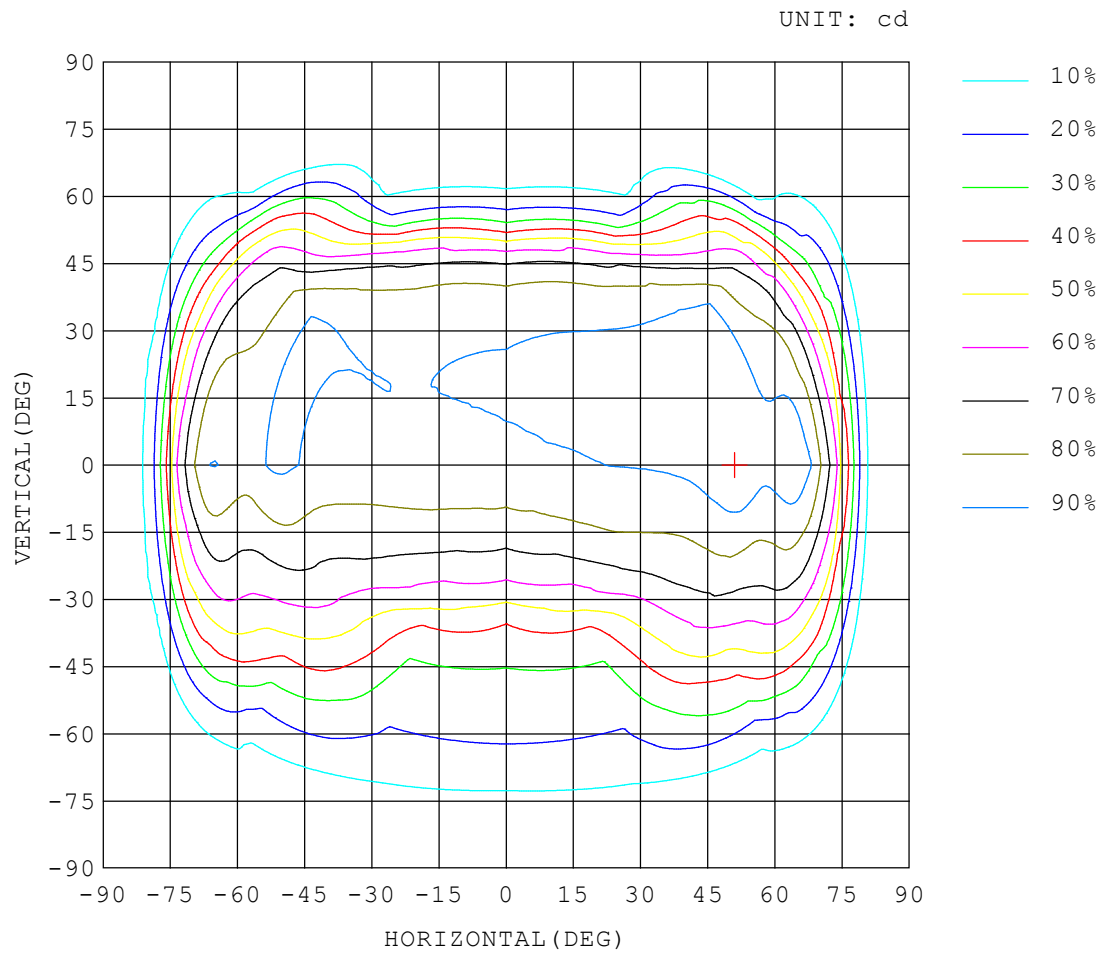
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Operators:  
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ISOCANDELA DIAGRAM

Report number:

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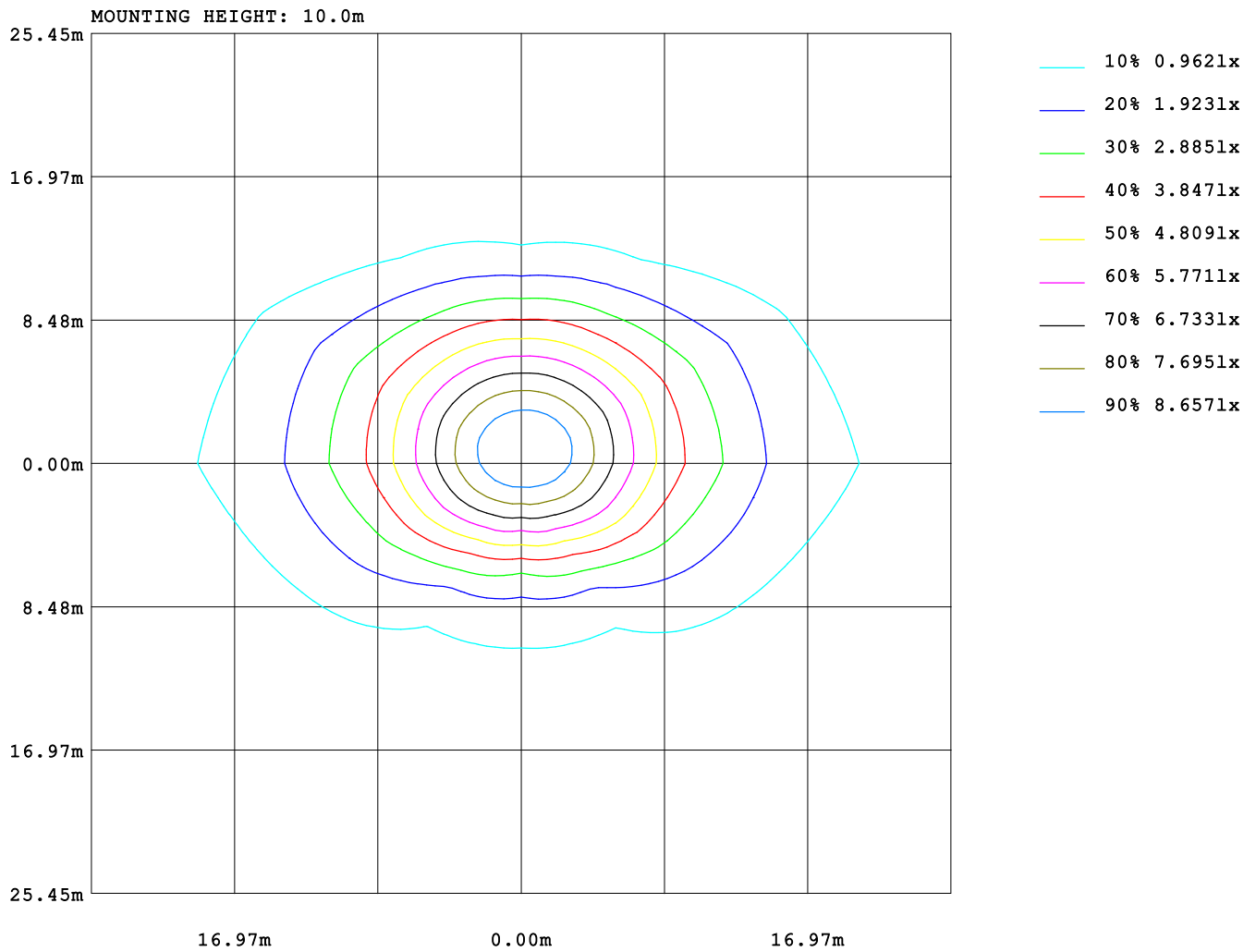
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MANUFACTURER: Red Arrow Electrical Ltd			
Address:			
NAME: ORN20-T3-N3-740		TYPE: 4000K/5700K	WEIGHT:
SPECIFICATION: 3030 LED	CCT (K) : 0	DIMENSION: T3	SERIAL No. :

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	951	951	951	951	951	951	951	951	951	951	951	951
5.0	958	942	927	919	922	932	946	959	967	973	974	970
10.0	966	932	892	873	886	914	945	967	980	990	990	986
15.0	975	921	853	818	842	895	945	976	989	999	1003	1002
20.0	984	908	801	747	789	875	946	983	992	998	1009	1016
25.0	990	892	736	671	724	849	944	987	990	991	1007	1025
30.0	993	870	660	567	646	821	940	989	982	974	998	1031
35.0	999	840	577	448	565	788	943	991	963	937	978	1035
40.0	1013	805	440	378	432	747	949	993	924	878	936	1038
45.0	1048	769	361	332	353	705	976	1002	850	762	856	1046
50.0	1093	729	311	295	304	671	1007	1005	728	548	730	1044
55.0	1062	673	270	265	265	596	970	962	469	290	440	996
60.0	1041	565	236	240	232	485	943	830	202	140	199	846
65.0	1069	437	198	200	194	357	991	703	87.0	74.0	87.4	686
70.0	894	302	153	152	151	226	860	414	48.7	46.8	49.3	365
75.0	504	129	87.5	62.0	83.1	112	519	88.8	26.4	25.8	26.4	63.0
80.0	148	47.6	32.9	16.9	30.0	41.4	129	27.4	11.8	11.4	12.0	26.2
85.0	19.4	14.7	10.7	2.32	9.97	12.8	9.63	10.4	3.61	5.01	3.60	10.6
90.0	6.77	5.63	5.22	2.38	4.93	4.56	5.48	6.11	2.93	4.09	2.79	5.41

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