

DATE: 20 November 2023
DESIGNER: Umar Shah
PROJECT No: 1000009506-PCL-LCP-4-P00-2-V1
PROJECT NAME: DBC Orchard Theatre

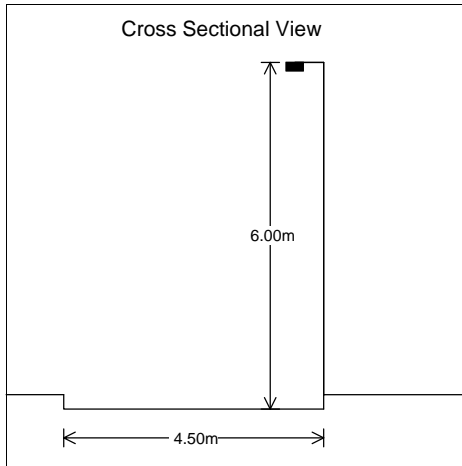
**PROJECT
CENTRE**

Dartford DBC Orchard Theatre Straight Road Calc
Back Entrance of Theatre
Target Lighting Class (C2)
Eav (min): 20lux , Emin/Eav (min) - 0.40
Maintenance factor (A) 0.83 using P863 325mA: 72 months, <=6m,
E3/E4

Dartford Orchard Theatre Lighting

Roadway Report Summary

Layout



Road Data

Calculation Grid	BS5489:1 2020
Width (m)	4.50
No. of Lanes	1
Road Surface	C2
Q0	0.07
Left Footpath(m)	0.00
Right Footpath(m)	0.00

Main Lighting



Column Data

Configuration	Single Sided Right
Spacing (m)	24.00
Height (m)	6.00
Tilt (deg)	0.00
Setback (m)	0.00
Outreach (m)	0.50
Overhang (m)	0.50

Luminaire Data

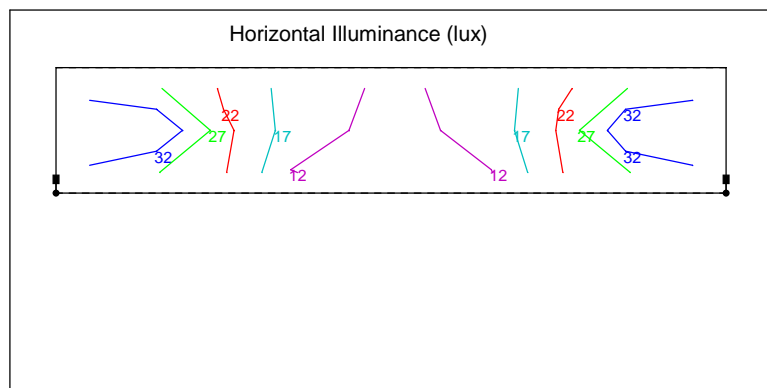
Supplier	C U Phosco
Type	P863-128-P4-740-W5-325-43W
Lamp(s)	740SS
Lamp Flux (klm)	6.35
File Name	P863-128-P4-740-W5-325-43W.ies
Maintenance Factor	0.83
Lum. Int. Class	G2

Results

Main

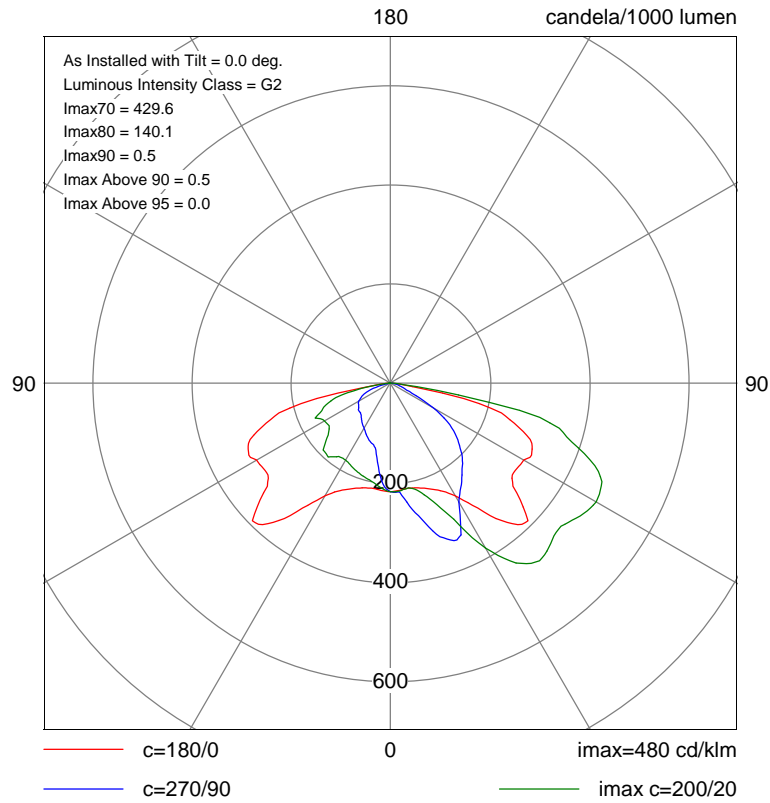
Complies with C2

Eav	22.05
Emin	9.00
Emax	40.15
Emin/Emax	0.22
Emin/Eav	0.41

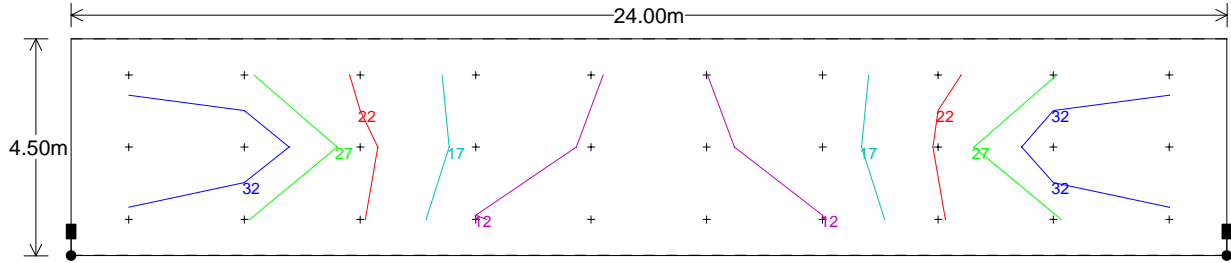


Polar Diagram

Main Luminaire P863-128-P4-740-W5-325-43W



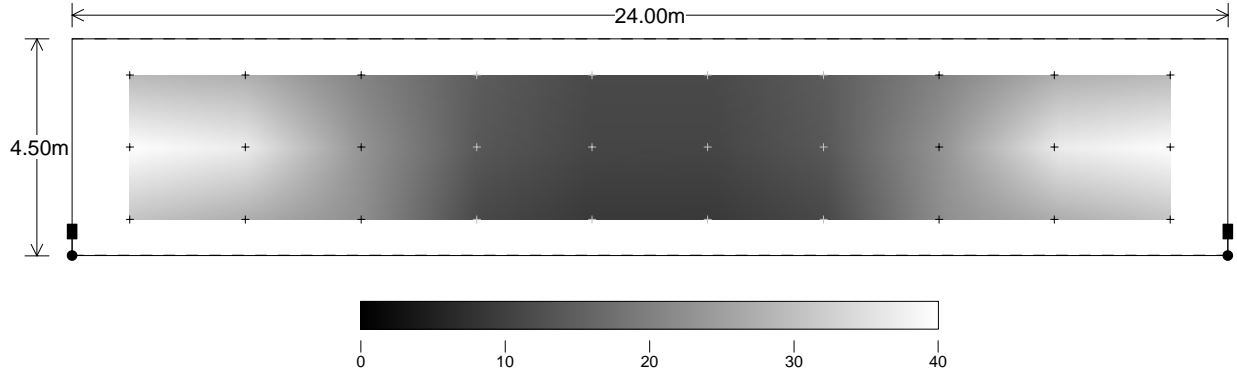
Horizontal Illuminance (lux)



Main Results

Eav	22.05
Emin	9.00
E _{max}	40.15
E _{min} /E _{max}	0.22
E _{min} /E _{av}	0.41

Horizontal Illuminance (lux)



Horizontal Illuminance (lux)

