

DATE: 10 April 2024
DESIGNER: Ronan Meally
PROJECT No: 23K79
PROJECT NAME: 2, 3 & 4 The Gardens, Rope Walk, Blackrock, Cork



EXTERNAL LIGHTING DESIGN TO IS EN 3210:2015 CLASS P3

Outdoor Lighting Report

PREPARED BY: Ronan Meally Consulting Engineers
1 Clty Wall
James Street
Kilkenny

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Walkway	284.92	102.39	29.97	9.04	1.50	1.29
2	Parking Area	314.06	100.38	22.04	22.55	1.47	1.41

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP701 DW50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	4.40
File Name	Luma Gen2 Nano_BGP701_DW50_4400_20LED_5.2S_CLO_L90_73 0.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	2

Luminaire B Data



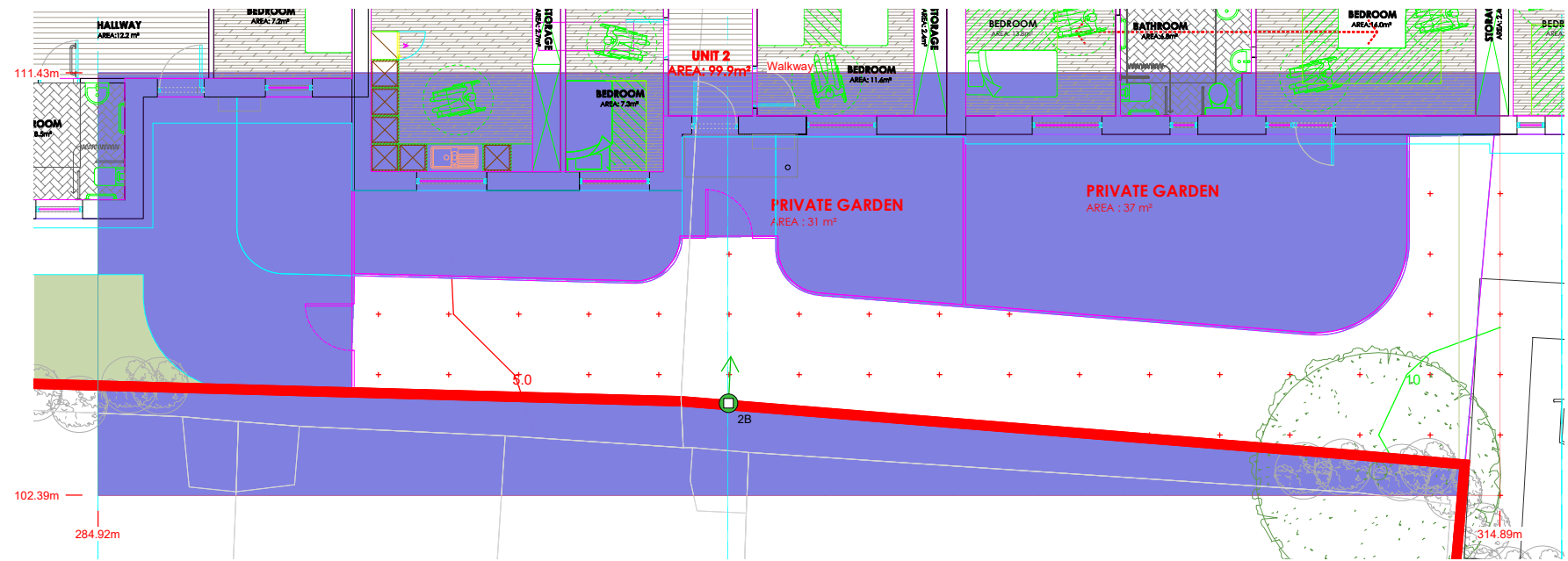
Supplier	Philips
Type	BGP701 DW50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.40
File Name	Luma Gen2 Nano_BGP701_DW50_2400_10LED_5.2S_CLO_L90_73 0.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	324.33	122.68	5.00	270.00	5.00	0.00	0.00			
2	B	298.39	104.36	5.00	87.00	0.00	0.00	0.00			
3	A	318.26	100.80	5.00	86.00	5.00	0.00	0.00			

Horizontal Illuminance (lux)

Walkway

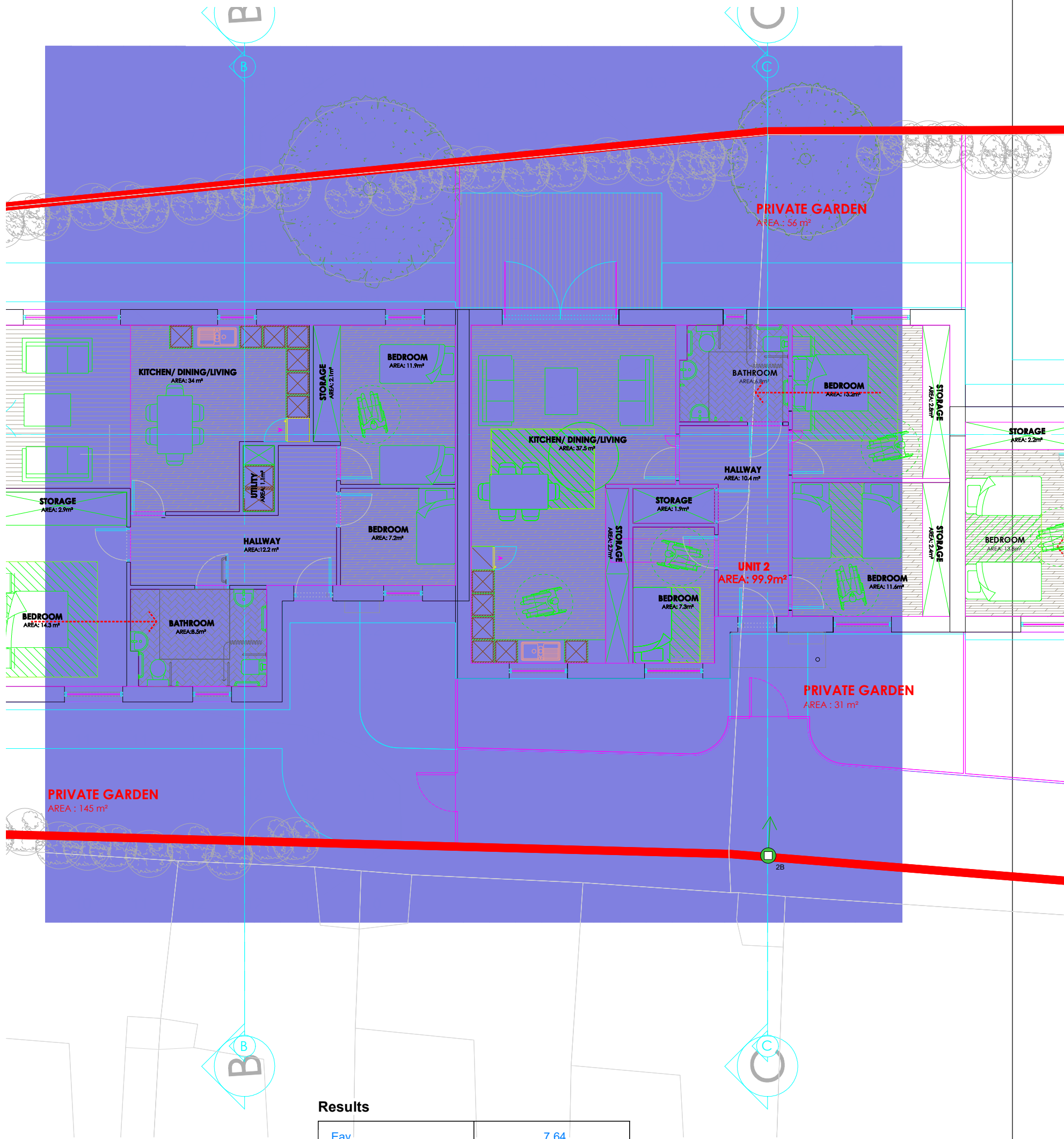


Results

Eav	7.73
Emin	3.59
Emax	12.60
Emin/Emax	0.29
Emin/Eav	0.46

Horizontal Illuminance (lux)

Parking Area



Results

Eav	7.64
Emin	2.27
Emax	12.51
Emin/Emax	0.18
Emin/Eav	0.30