Stockyard

Installation : 50 Lux - Using x3 18m Masts c/w x6 1kw Floods

Project number	: EMAIL
Customer	: City Electrical Factors Rotherham (Ian)
Processed by	: Lee Kinsey
Date	: 13.05.2011

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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1 Luminaire data

1.1 Tamlite, TAMSPORT (!TFL1000HPI/ASY)

1.1.1 Data sheet

Manufacturer: Tamlite

!TFL1000HPI/ASY EXTERIOR - Floodlights TAMSPORT
EXTERIOR
TAMSPORT
FLOODLIGHTS
High performance large area floodlight

Features
Modern floodlight for use in top standard sports installations
High quality finish and performance
Symmetric reflector as standard
Supplied with remote gear pre-wired in weatherproof steel enclosure
(300mm x 200mm x 155mm)
Ignitor housed in wiring tray on rear of body
IP66
Maximum projected area front = 0.20M²

Construction
Die cast aluminium housing finished in grey RAL 9006
Extruded anodized aluminium closing clips with stainless steel spring
Mounting bracket in stainless steel painted in RAL9006 with clutch locking device
Graduated goniometerallows easy and accurate aiming
Hinged toughened glass
Breather gland fitted

To order / specify
Die cast aluminium, high performance sports floodlight for use with 1000W discharge lamps as per Tamlite 'TAMSPORT' range

Options
ASY Asymmetric reflector

Accesories
TFLWG Wire guard
TFLLH Light hood

Diagram Dimensions
A 550
B 663
C 293

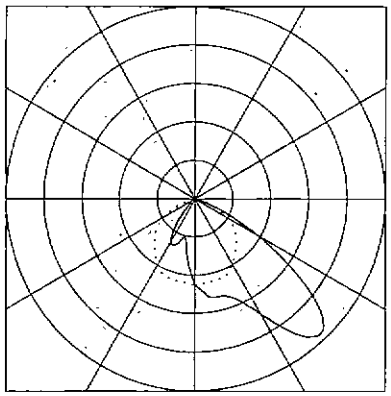
Luminaire data			**Equipped with**		
Luminaire efficiency	:	71.4%	Number of	:	1
Luminaire efficacy	:	55.48 lm/W	Designation	:	QE
Classification	:	A40 ↓100.0% ↑0.0%	Power	:	1000 W
CIE Flux Codes	:	44 84 99 100 72	Colour	:	nw/4200K
Control gear	:	conventional inductive ballast, with ignition device and ignition time bypass	Luminous flux	:	85000 lm
System power	:	1094 W			
Length	:	550 mm			
Width	:	403 mm			
Height	:	293 mm			

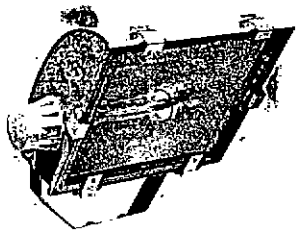
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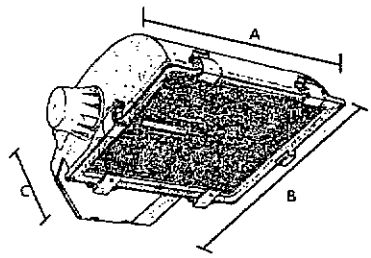
1 Luminaire data

1.1 Tamlite, TAMSPORT (!TFL1000HPI/ASY)

1.1.1 Data sheet





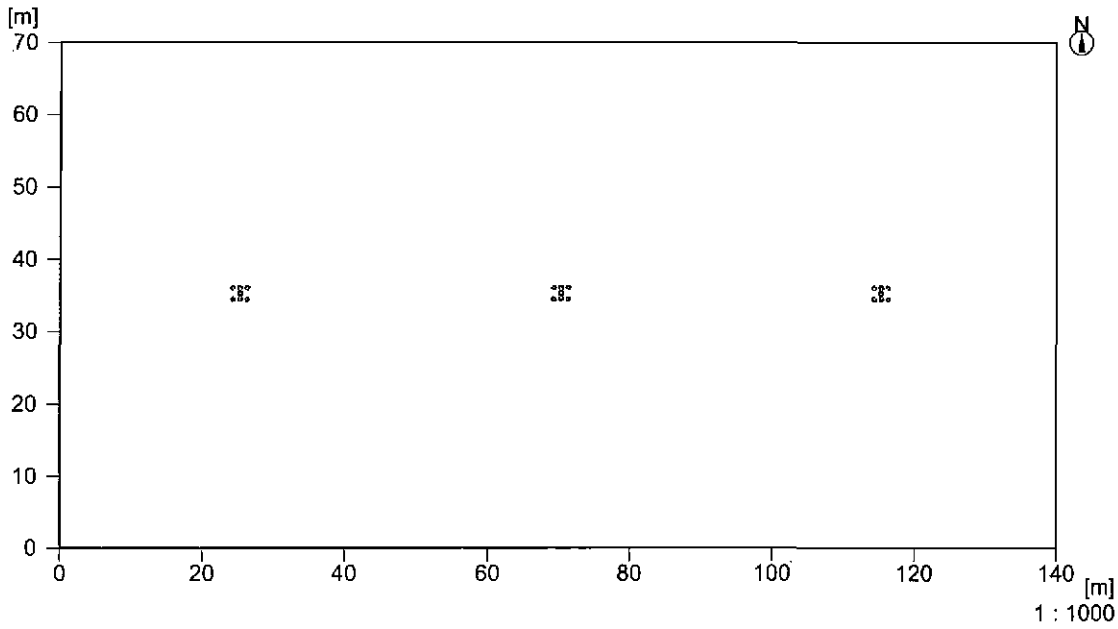


Lee Kinsey - Senior Lighting Engineer - Tamlite Technical - Stafford Park 12
Telford - Shropshire - TF3 3BJ (e) lkinsey@tamlite.co.uk (t) 01952 292441

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan

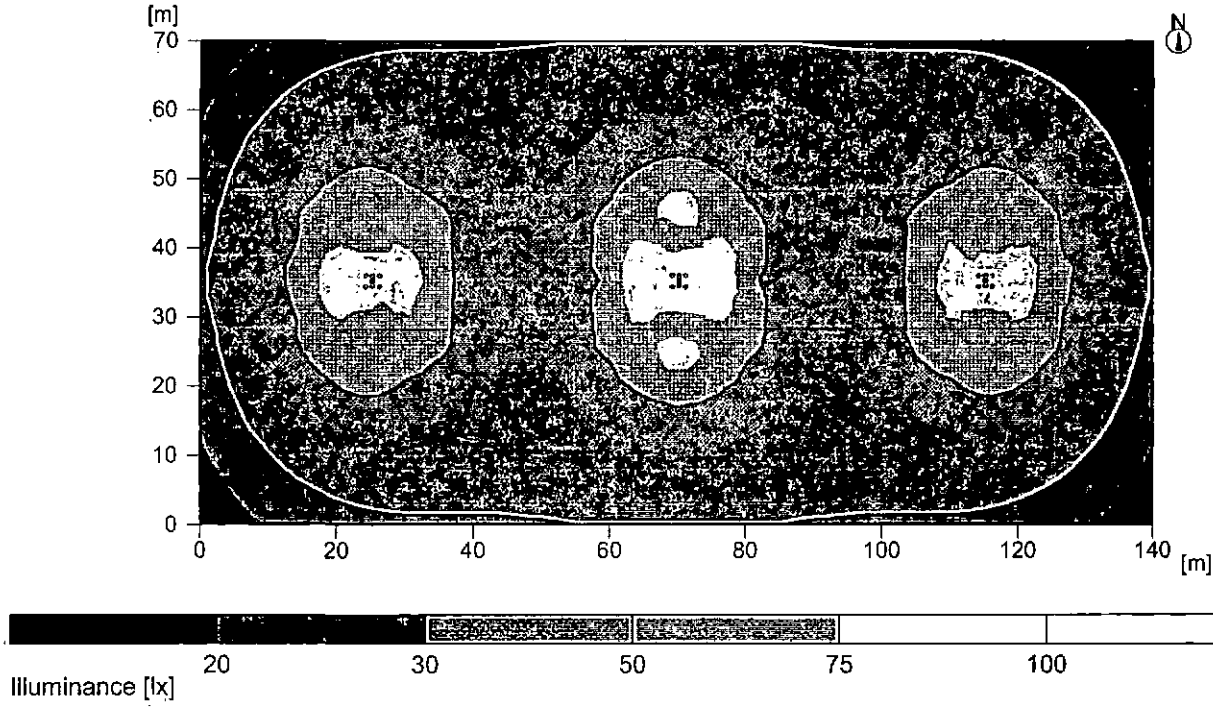


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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	18.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	1530000 lm
Total power	19692 W
Total power per area (9800.00 m²)	2.01 W/m² (3.70 W/m²/100lx)

Illuminance

Average illuminance	Eav	54 lx
Minimum illuminance	Emin	16 lx
Maximum illuminance	Emax	139 lx
Uniformity g1	Emin/Em	1:3.44 (0.29)
Uniformity g2	Emin/Emax	1:8.8 (0.11)

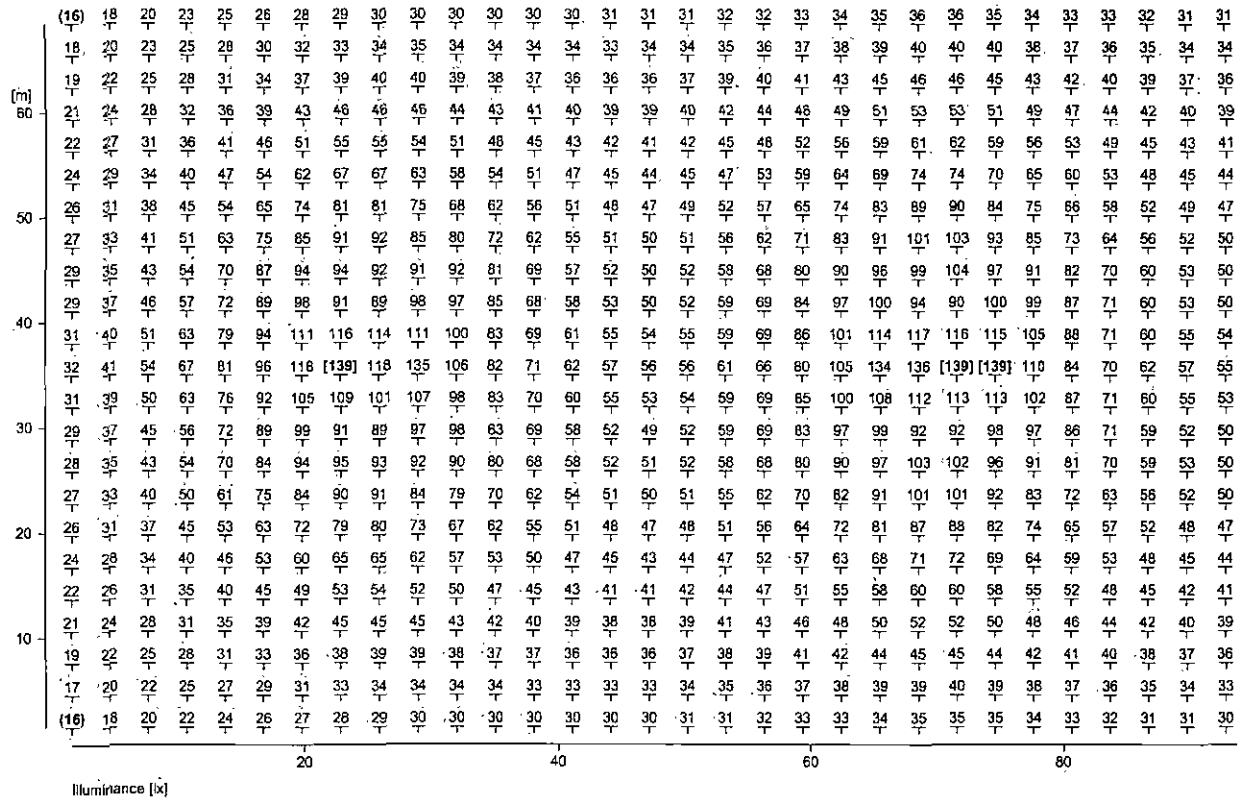
1 18 **Tamlite**
Order No. : !TFL1000HPI/ASY
Luminaire name : TAMSPORT
Equipment : 1 x QE 1000 W / 85000 lm

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2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1 (E)



	(16)	18	20	23	25	26	28	29	30	30	30	30	30	30	31	31	31	32	32	33	34	35	36	36	35	34	33	33	32	31	31
	18	20	23	25	28	30	32	33	34	35	34	34	34	34	33	34	34	35	36	37	38	39	40	40	40	38	37	36	35	34	34
	19	22	25	28	31	34	37	39	40	40	39	38	37	36	36	36	37	39	40	41	43	45	46	46	45	43	42	40	39	37	36
60	21	24	28	32	36	39	43	46	46	46	44	43	41	40	39	39	40	42	44	48	49	51	53	53	51	49	47	44	42	40	39
	22	27	31	36	41	46	51	55	55	54	51	48	45	43	42	41	42	45	48	52	56	59	61	62	59	56	53	49	45	43	41
	24	29	34	40	47	54	62	67	67	63	58	54	51	47	45	44	45	47	53	59	64	69	74	74	70	65	60	53	48	45	44
50	26	31	38	45	54	65	74	81	81	75	68	62	56	51	48	47	49	52	57	65	74	83	89	90	84	75	66	58	52	49	47
	27	33	41	51	63	75	85	91	92	85	80	72	62	55	51	50	51	56	62	71	83	91	101	103	93	85	73	64	56	52	50
	29	35	43	54	70	87	94	94	92	91	92	81	69	57	52	50	52	58	68	80	90	96	99	104	97	91	82	70	60	53	50
	29	37	46	57	72	89	98	91	89	98	97	85	68	58	53	50	52	59	69	84	97	100	94	90	100	99	87	71	60	53	50
40	31	40	51	63	79	94	111	116	114	111	100	83	69	61	55	54	55	59	69	86	101	114	117	116	115	105	88	71	60	55	54
	32	41	54	67	81	96	118	[139]	118	135	106	82	71	62	57	56	56	61	66	80	105	134	136	[139]	[139]	110	84	70	62	57	55
	31	39	50	63	76	92	105	109	101	107	98	83	70	60	55	53	54	59	69	85	100	108	112	113	113	102	87	71	60	55	53
30	29	37	45	56	72	89	99	91	89	97	98	83	69	58	52	49	52	59	69	83	97	99	92	92	98	97	86	71	59	52	50
	28	35	43	54	70	84	94	95	93	92	90	80	68	58	52	51	52	58	68	80	90	97	103	102	96	91	81	70	59	53	50
	27	33	40	50	61	75	84	90	91	84	79	70	62	54	51	50	51	55	62	70	82	91	101	101	92	83	72	63	56	52	50
20	26	31	37	45	53	63	72	79	80	73	67	62	55	51	48	47	48	51	56	64	72	81	87	88	82	74	65	57	52	48	47
	24	28	34	40	46	53	60	65	65	62	57	53	50	47	45	43	44	47	52	57	63	68	71	72	69	64	59	53	48	45	44
	22	26	31	35	40	45	49	53	54	52	50	47	45	43	41	41	42	44	47	51	55	58	60	60	58	55	52	48	45	42	41
	21	24	28	31	35	39	42	45	45	45	43	42	40	39	38	38	39	41	43	46	48	50	52	52	50	48	46	44	42	40	39
10	19	22	25	28	31	33	36	38	39	39	38	37	37	36	36	36	37	38	39	41	42	44	45	45	44	42	41	40	38	37	36
	17	20	22	25	27	29	31	33	34	34	34	34	33	33	33	33	34	35	36	37	38	39	39	40	39	38	37	36	35	34	33
	(16)	18	20	22	24	26	27	28	29	30	30	30	30	30	30	30	31	31	32	33	33	34	35	35	35	34	33	32	31	31	30

Part1

Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 54 lx
Minimum illuminance	Emin	: 16 lx
Maximum illuminance	Emax	: 139 lx
Uniformity g1	Emin/Eav	: 1 : 3.44 (0.29)
Uniformity g2	Emin/Emax	: 1 : 8.80 (0.11)

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2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1 (E)

31	30	30	30	30	30	30	29	28	26	25	23	21	19	(16)
33	34	34	34	34	35	34	33	32	30	28	26	23	21	18
36	36	37	38	39	39	40	39	37	35	32	29	26	23	20
39	39	41	42	44	46	46	46	44	40	36	32	29	25	21
41	43	45	47	50	53	55	55	52	47	41	36	32	27	23
45	47	50	54	58	63	67	68	63	56	48	41	35	30	25
48	51	55	61	68	74	81	81	76	66	56	47	39	32	27
51	54	61	70	79	83	91	93	85	77	65	53	42	34	28
52	57	67	80	91	93	92	93	95	88	73	56	45	36	30
52	57	67	81	95	96	89	89	97	92	74	59	48	38	30
55	60	68	82	96	112	106	112	109	97	81	66	53	41	33
57	61	69	80	99	125	132	123	116	97	82	69	56	43	33
54	59	68	82	95	108	110	108	104	95	80	64	52	41	32
52	57	66	81	95	99	90	88	99	92	76	59	47	38	30
51	56	66	77	89	92	94	94	94	87	73	57	44	35	29
50	54	60	69	78	83	89	91	84	76	63	52	42	34	28
47	50	55	60	66	72	79	79	74	65	55	46	39	32	26
44	46	49	52	56	61	65	66	61	54	47	41	35	29	25
41	42	44	47	49	52	54	53	50	46	41	36	31	27	23
38	39	40	42	43	45	45	45	42	39	35	32	28	25	21
36	36	37	37	38	39	39	38	36	34	31	28	25	22	19
33	33	33	34	34	34	34	33	32	30	28	25	23	20	18
30	30	30	30	30	30	29	29	27	26	24	23	20	18	(16)

100 120 [m]

Part2