

Photometric Report

CATALOG NUMBER: CATALOG NO. : PA8104-CLR

FILENAME: PA8104_IES.HTM

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<!-- saved from url=(0049)http://www.guth.com/photometry/uploads/PA8104.ies -->
<HTML><HEAD>
<META http-equiv=Content-Type content="text/html; charset=windows-1252">
<META content="MSHTML 6.00.2800.1586" name=GENERATOR></HEAD>
<BODY><PRE>IESNA:LM-63-1995
[TEST]REPORT NO. P11455
[MANUFAC] GUTH LIGHTING INC - ST.LOUIS, MISSOURI
[LUMINAIRE] TEARDROP 1 LAMP F28W T5
[LUMINAIRE] BALLAST ES-1-T5-28-120-F
[LUMCAT]CATALOG NO. : PA8104-CLR
[LAMPCAT]LAMP CODE : F28W T5
```

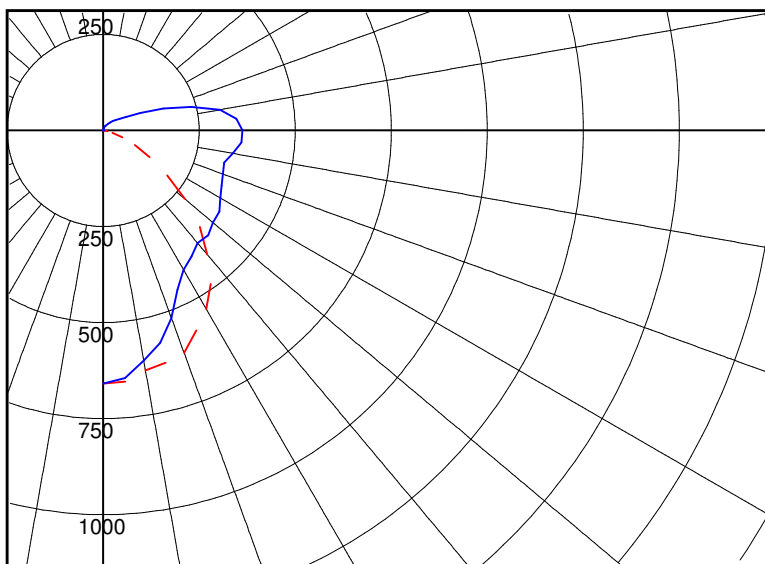
SUMMARY DATA

```
EFFICIENCY (Total):          77.8 %
EFFICIENCY (Downlight):     62.7 %
EFFICIENCY (Uplight):       15.1 %
CIE CLASSIFICATION:        SEMI-DIRECT
SPACING CRITERION (0-Deg.): 1.21
SPACING CRIERION (90-Deg.): 0.97
LUMENS/LAMP:                2900
NO. OF LAMPS:               1
LUMINOUS OPENING:          RECTANGULAR
    Width:                   0.17 (Feet)
    Length:                  4.00
    Height:                  0.36
INPUT WATTS:                 30
RP-1-93 VDT CONFORMANCE:   NON-CONFORMING
```

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	460.4	15.9	20.4
0 - 40	715.7	24.7	31.7
0 - 60	1186.1	40.9	52.6
60 - 90	632.4	21.8	28.0
0 - 90	1818.5	62.7	80.6
90 - 180	437.9	15.1	19.4
0 - 180	2256.4	77.8	100.0

CANDELA PLOT



Quadralaterally Symmetric
Dashed: 0 Degrees Solid: 90 Degrees

AVERAGE LUMINANCE

(Candelas / Square Meter)

Angle	0	22.5	45	67.5	90
0	10683	10683	10683	10683	10683
45	7480	3371	2645	2687	2769
55	5102	2180	2272	2420	2522
65	2920	1582	1940	2142	2284
75	1168	1281	1781	2088	2221
85	364	1206	2024	2391	2573

COEFFICIENT OF UTILIZATION TABLE

Effective Floor cavity Reflectance = 20%

Pcc ...	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.89	.89	.89	.89	.85	.85	.85	.85	.78	.78	.78	.72	.72	.72	.66	.66	.66	.63
1	.79	.74	.70	.66	.75	.70	.67	.63	.64	.61	.58	.59	.56	.54	.53	.51	.50	.47
2	.71	.63	.57	.52	.67	.61	.55	.50	.55	.51	.47	.51	.47	.44	.46	.43	.40	.38
3	.64	.55	.49	.43	.61	.53	.47	.42	.49	.43	.39	.44	.40	.36	.40	.37	.34	.31
4	.59	.49	.42	.36	.56	.47	.40	.35	.43	.38	.33	.39	.35	.31	.36	.32	.29	.27
5	.54	.44	.37	.31	.51	.42	.35	.30	.39	.33	.29	.36	.31	.27	.33	.29	.25	.23
6	.50	.39	.32	.27	.48	.38	.31	.27	.35	.29	.25	.32	.27	.24	.30	.26	.22	.20
7	.46	.36	.29	.24	.44	.34	.28	.24	.32	.26	.22	.29	.25	.21	.27	.23	.20	.18
8	.43	.33	.26	.22	.41	.32	.25	.21	.29	.24	.20	.27	.22	.19	.25	.21	.18	.16
9	.40	.30	.24	.19	.39	.29	.23	.19	.27	.22	.18	.25	.21	.17	.23	.19	.16	.15
10	.38	.28	.22	.18	.36	.27	.21	.17	.25	.20	.16	.23	.19	.16	.22	.18	.15	.13

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CANDELA TABLE

Vertical Angle	Horizontal Angles				
	<u>0</u>	<u>22.5</u>	<u>45</u>	<u>67.5</u>	<u>90</u>
0	659	659	659	659	659
5	656	651	650	647	647
10	634	628	620	611	608
15	626	613	596	578	573
20	616	591	558	530	520
25	574	541	494	465	458
30	537	488	431	415	419
35	488	426	381	389	401
40	422	349	329	362	383
45	356	283	302	359	386
50	277	22	279	345	373
55	204	179	266	338	369
60	140	146	243	318	352
65	91	123	226	303	340
70	53	106	210	293	332
75	25	91	200	290	326
80	12	81	206	303	343
85	4	75	212	316	361
90	0	70	210	316	362
95	0	55	194	303	348
100	0	44	166	267	309
105	0	37	128	203	237
110	0	32	91	141	167
115	0	27	64	90	107
120	0	21	45	61	70
125	0	15	34	47	53
130	0	10	25	37	42
135	0	8	18	30	35
140	0	0	15	22	27
145	0	0	14	18	21
150	0	0	11	14	15
155	0	0	8	12	12
160	0	0	0	8	11
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0