



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA332UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]11/02/07
 [TEST]ITL59442
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]PS4SA332UNIH
 [LUMINAIRE]POWER STRIP MIRO4 4' 32w T8 3-LAMP HBF
 [LAMP] (3) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]GE GE-432-MAX-H/ULTRA
 [MOUNTING]SURFACE
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 109 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	8850 (3 lamps)
Total Luminaire Efficiency	88.6 %
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.80
Spacing Criteria (Diagonal)	1.02
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.99 ft
Luminous Height	0.12 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8582	4310	4970
55	7973	4613	5723
65	6969	5212	5338
75	5393	4150	4407
85	1837	4431	6037

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA332UNIH.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3563.83	3563.83	3563.83	3563.83	3563.83
2.5	3573.4	3571.66	3547.32	3531.67	3529.93
5.0	3556.01	3556.01	3507.32	3472.54	3459.5
7.5	3533.4	3514.28	3439.5	3345.61	3311.7
10.0	3507.32	3475.15	3323.87	3197.8	3144.76
12.5	3464.72	3409.07	3188.24	3020.43	2949.14
15.0	3425.59	3328.22	3043.91	2817.86	2714.39
17.5	3365.6	3223.88	2881.32	2587.45	2490.95
20.0	3306.48	3111.73	2686.57	2410.96	2334.45
22.5	3237.79	2989.13	2496.16	2257.94	2176.21
25.0	3161.28	2871.76	2323.14	2105.78	1998.84
27.5	3080.43	2730.91	2185.77	1916.25	1811.04
30.0	2987.4	2582.24	2041.45	1735.4	1653.67
32.5	2888.28	2424.87	1872.77	1584.12	1546.73
35.0	2789.16	2247.5	1699.76	1487.61	1485.87
37.5	2667.44	2069.27	1525.87	1434.58	1460.66
40.0	2549.2	1909.29	1399.8	1405.02	1457.18
42.5	2430.08	1765.83	1302.42	1394.58	1445.01
45.0	2300.54	1628.46	1241.56	1377.19	1450.23
47.5	2173.6	1485.00	1200.7	1377.19	1460.66
50.0	2037.1	1330.24	1170.27	1380.67	1452.83
52.5	1897.12	1176.35	1140.71	1368.5	1437.18
55.0	1755.4	1025.07	1122.45	1346.76	1417.19
57.5	1604.99	892.91	1109.41	1316.33	1368.5
60.0	1457.18	793.80	1077.24	1264.17	1299.81
62.5	1302.42	725.98	1045.07	1185.05	1184.18
65.0	1153.75	672.95	996.38	1062.46	1045.94
67.5	1007.68	626.87	922.48	932.91	919.87
70.0	855.53	594.70	806.84	805.97	792.06
72.5	712.94	555.57	681.64	678.16	673.82
75.0	571.22	506.88	552.96	582.52	609.48
77.5	432.11	439.94	446.02	536.44	572.09
80.0	297.35	326.91	392.12	497.32	535.58
82.5	179.97	229.53	353.86	459.06	495.58
85.0	79.12	175.63	315.61	422.55	461.67
87.5	14.78	141.72	282.57	386.03	420.81
90.0	0.00	112.16	248.66	345.17	386.90
92.5	0.00	53.04	199.97	279.96	331.26
95.0	0.00	8.69	123.46	209.54	262.57
97.5	0.00	2.61	48.69	117.37	182.58
100.0	0.00	0.00	1.74	29.56	82.60
102.5	0.00	0.00	0.00	0.00	10.43
105.0	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA332UNIH.IES

CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA332UNIH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2320.44	26.2	29.6
0-40	3510.46	39.7	44.8
0-60	5833.5	65.9	74.4
0-90	7708.5	87.1	98.3
90-120	133.82	1.5	1.7
90-130	133.82	1.5	1.7
90-150	133.82	1.5	1.7
90-180	133.82	1.5	1.7
0-180	7842.32	88.6	100

Total Luminaire Efficiency = 88.6%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	329.13
10-20	857.59
20-30	1133.72
30-40	1190.02
40-50	1186.65
50-60	1136.39
60-70	943.71
70-80	600.21
80-90	331.08
90-100	131.04
100-110	2.79
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

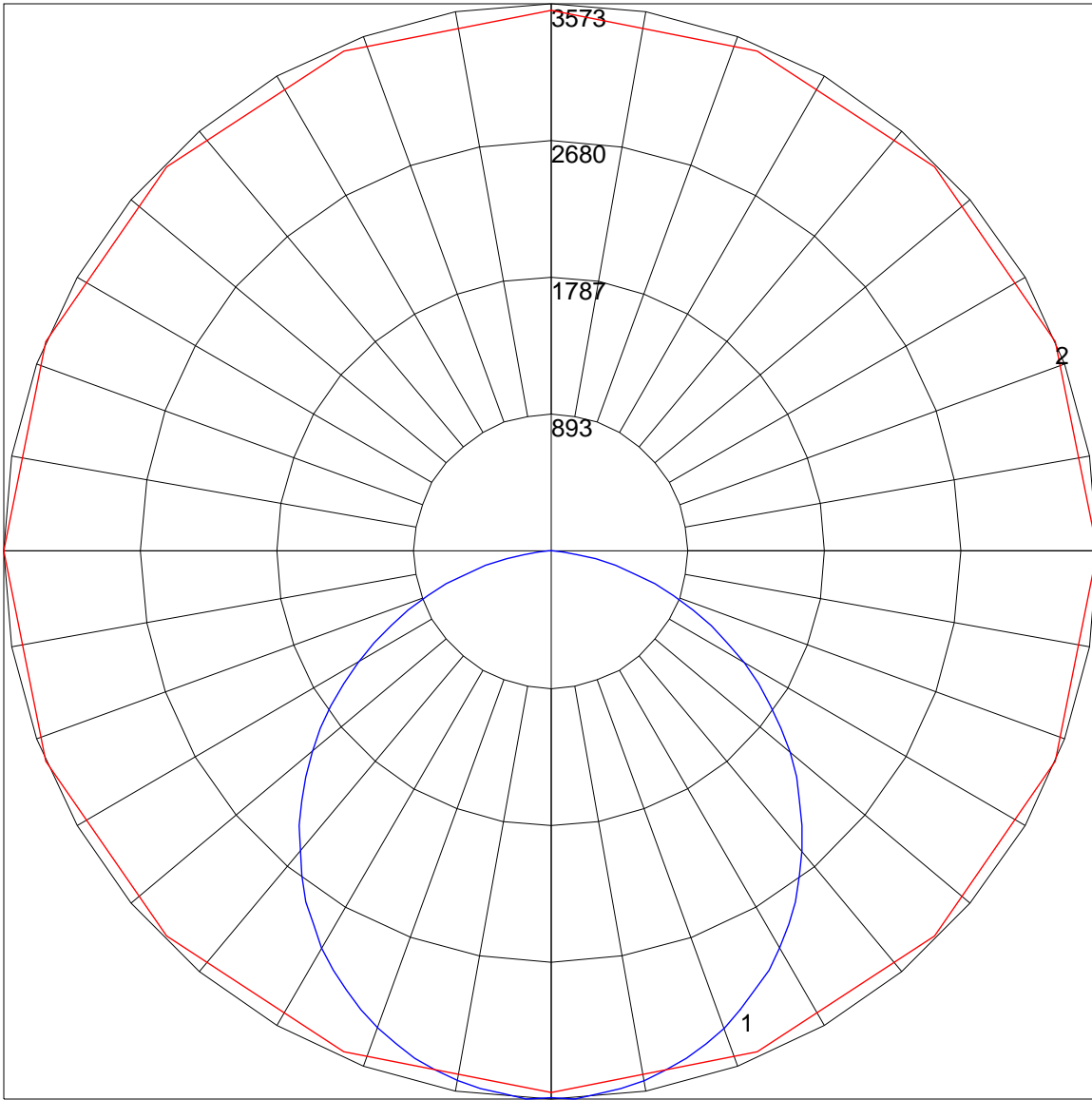
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA332UNIH.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	105	105	105	105	103	103	103	103	98	98	98	93	93	93	89	89	89	87	87
1	95	91	87	83	93	88	85	81	84	81	78	81	78	76	77	75	73	71	71
2	87	79	73	67	84	77	71	66	74	69	65	71	66	63	68	64	61	59	59
3	79	69	62	56	77	68	61	56	65	59	54	62	57	53	60	56	52	50	50
4	72	62	54	48	70	60	53	47	58	52	47	56	50	46	54	49	45	43	43
5	67	55	47	41	65	54	47	41	52	46	41	50	45	40	49	43	39	37	37
6	62	50	42	36	60	49	42	36	47	41	36	46	40	35	44	39	35	33	33
7	58	46	38	32	56	45	38	32	43	37	32	42	36	32	41	35	31	30	30
8	54	42	34	29	52	41	34	29	40	33	29	39	33	29	38	32	28	27	27
9	50	39	31	27	49	38	31	26	37	31	26	36	30	26	35	30	26	24	24
10	47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	24	22	22

POLAR GRAPH



Maximum Candela = 3573.4 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)