



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4WA332UNIH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]05/19/08
 [TEST]ITL60324
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE]PS4WA332UNIH
 [LUMINAIRE]POWER STRIP WHITE REFLECTOR 4' 32W T8 3-LAMP HBF
 [LAMP](3) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]GE GE332MAX-H/ULTRA
 [MOUNTING]SURFACE
 [PAINT REFL]89.7 %
 [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	91.3 %
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.30
Spacing Criteria (90-270)	1.32
Spacing Criteria (Diagonal)	1.42
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	6276	5943	6252
55	6173	5932	6464
65	5971	5971	6221
75	5418	5169	5519
85	2524	5151	6754

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2407.48	2407.48	2407.48	2407.48	2407.48
2.5	2417.04	2414.43	2403.13	2391.83	2390.96
5.0	2409.22	2404.87	2393.57	2382.27	2381.4
7.5	2396.18	2391.83	2379.66	2367.49	2366.62
10.0	2377.92	2372.7	2360.53	2349.23	2347.49
12.5	2356.18	2350.1	2337.05	2325.75	2324.88
15.0	2327.49	2321.4	2308.36	2298.8	2301.41
17.5	2296.19	2290.11	2277.06	2270.11	2270.98
20.0	2261.41	2251.85	2240.55	2240.55	2243.16
22.5	2229.24	2213.59	2204.9	2206.64	2210.99
25.0	2177.95	2169.25	2164.04	2169.25	2175.34
27.5	2131.00	2117.09	2117.09	2129.26	2136.21
30.0	2077.09	2065.79	2069.27	2086.66	2097.09
32.5	2019.71	2005.8	2016.23	2039.71	2057.1
35.0	1960.59	1945.81	1957.11	1993.63	2011.88
37.5	1891.03	1877.99	1898.86	1944.94	1968.41
40.0	1824.95	1813.65	1838.87	1897.99	1923.2
42.5	1757.14	1743.23	1777.14	1847.56	1876.25
45.0	1682.37	1666.72	1711.93	1793.65	1824.09
47.5	1607.59	1589.34	1648.46	1738.01	1773.66
50.0	1526.74	1510.22	1583.25	1681.5	1718.01
52.5	1445.88	1425.01	1515.43	1625.85	1660.63
55.0	1358.93	1334.59	1443.27	1558.04	1600.64
57.5	1271.12	1247.65	1371.11	1492.83	1526.74
60.0	1175.48	1152.01	1298.94	1412.84	1441.53
62.5	1082.45	1062.46	1223.3	1329.37	1343.28
65.0	988.55	970.30	1141.57	1223.3	1218.95
67.5	889.44	880.74	1049.41	1092.89	1092.89
70.0	783.37	796.41	939.00	965.95	968.56
72.5	680.77	714.68	812.93	846.83	851.18
75.0	573.83	626.00	688.60	732.07	763.37
77.5	456.46	531.23	567.74	657.30	687.73
80.0	342.56	407.77	486.02	589.48	620.78
82.5	222.58	298.22	417.33	529.49	566.87
85.0	108.68	222.58	366.90	480.80	516.45
87.5	20.87	168.67	314.74	425.16	460.80
90.0	0.00	133.02	272.13	383.42	419.07
92.5	0.00	52.17	191.28	289.52	335.60
95.0	0.00	11.30	92.16	183.45	223.45
97.5	0.00	4.35	35.65	89.55	126.94
100.0	0.00	1.74	0.87	32.17	52.17
102.5	0.00	0.00	0.00	0.00	6.96
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1880.76	21.3	23.3
0-40	3114.85	35.2	38.6
0-60	5752.26	65	71.2
0-90	7953.06	89.9	98.4
90-120	126.82	1.4	1.6
90-130	126.82	1.4	1.6
90-150	126.82	1.4	1.6
90-180	126.82	1.4	1.6
0-180	8079.89	91.3	100

Total Luminaire Efficiency = 91.3%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.49
10-20	652.65
20-30	1000.61
30-40	1234.09
40-50	1337.43
50-60	1299.98
60-70	1092.81
70-80	722.78
80-90	385.2
90-100	124.55
100-110	2.28
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

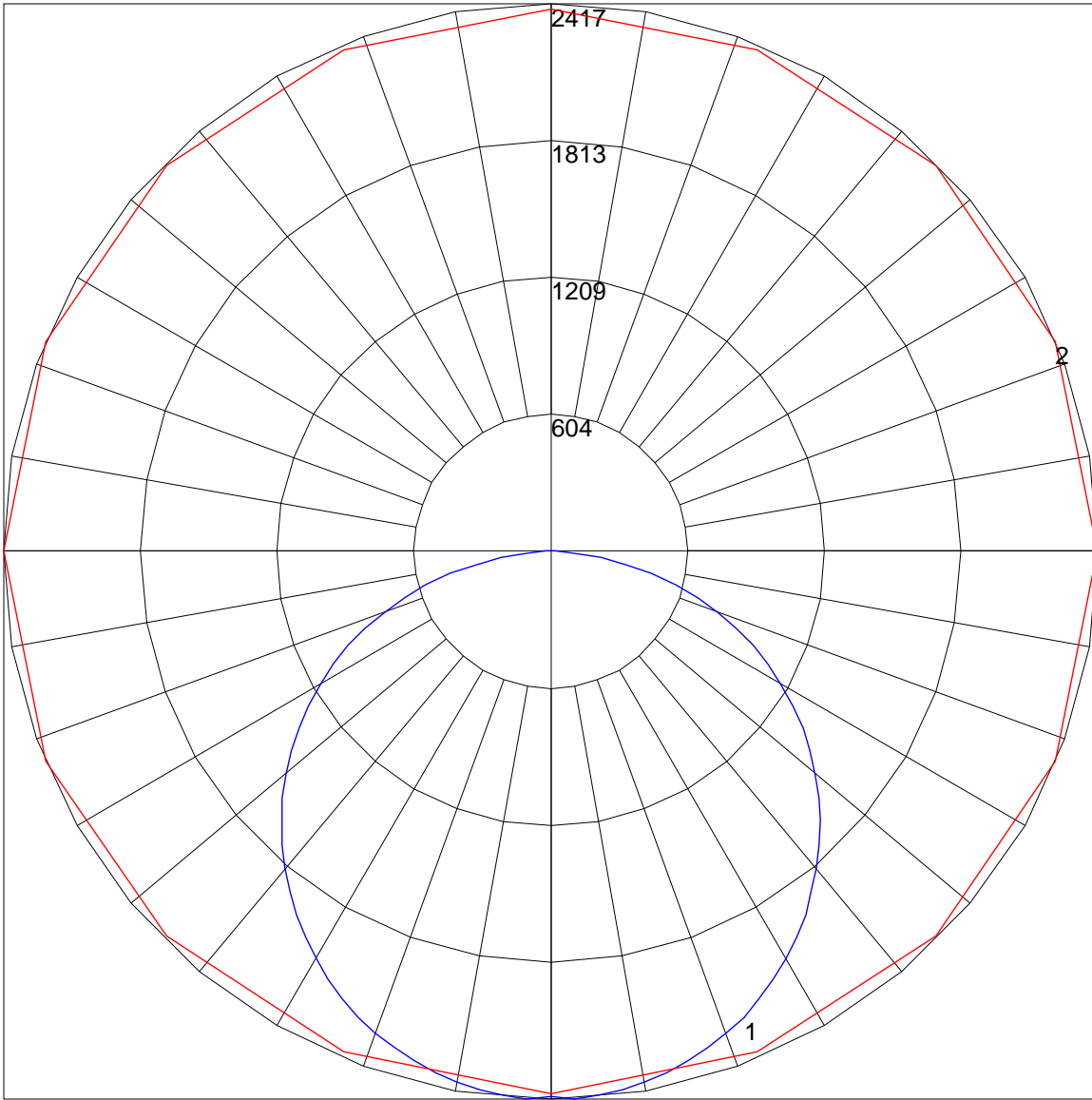
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	106	106	106	106	101	101	101	96	96	96	92	92	92	90
1	97	92	88	84	95	90	86	82	86	82	79	82	79	77	78	76	74	72
2	88	80	73	67	85	78	71	66	74	69	64	71	66	62	68	64	61	59
3	80	69	61	55	77	68	60	54	65	58	53	62	56	52	59	55	51	49
4	73	61	52	46	70	60	52	45	57	50	45	55	49	44	53	47	43	41
5	67	54	46	39	65	53	45	39	51	44	38	49	43	38	47	42	37	35
6	61	49	40	34	59	48	40	34	46	39	33	44	38	33	42	37	32	30
7	57	44	36	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
8	53	40	32	26	51	39	32	26	38	31	26	37	30	26	35	30	25	24
9	49	37	29	24	48	36	29	24	35	28	23	34	28	23	33	27	23	21
10	46	34	26	21	45	33	26	21	32	26	21	31	25	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 2417.04 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.)