



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-PRO-22-LED4-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED PENDANT LUMINAIRE

[LUMCAT]ZES

[LUMINAIRE]WITH WHITE INTERIOR AND FROSTED WRAPPED PLASTIC LENSES

[LAMP]

[OTHER]FO

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.23 ft
Luminous Width (90-270)	2.23 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2735	2858	2726
55	3305	3411	3315
65	4410	4361	4426
75	6779	6317	6758
85	14200	11934	14047

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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	697.62	697.62	697.62	697.62	697.62
2.5	702.02	702.68	696.96	696.96	701.36
5.0	712.58	712.80	706.86	705.98	710.38
7.5	727.54	727.32	722.70	720.50	724.24
10.0	745.80	746.24	742.94	739.20	741.40
12.5	766.48	768.24	765.82	760.54	760.54
15.0	788.70	792.44	791.12	784.30	782.10
17.5	812.24	817.96	817.74	809.16	804.76
20.0	835.56	843.26	844.80	834.02	826.98
22.5	858.22	868.34	871.64	858.88	848.32
25.0	879.34	891.88	897.60	882.64	868.56
27.5	898.26	913.88	922.24	905.08	887.04
30.0	914.54	933.46	944.90	925.10	903.32
32.5	927.08	949.96	964.70	942.26	916.52
35.0	936.76	963.38	981.64	956.78	926.86
37.5	943.36	973.94	995.50	968.44	935.00
40.0	947.32	981.64	1005.84	977.24	940.50
42.5	949.52	986.70	1013.10	983.84	944.46
45.0	950.40	989.56	1017.50	988.46	947.32
47.5	950.84	991.32	1020.36	991.76	949.52
50.0	951.94	992.64	1021.24	994.40	952.38
52.5	953.26	993.30	1020.80	996.16	955.24
55.0	955.24	994.40	1019.48	997.92	958.10
57.5	958.76	996.16	1017.94	999.90	962.72
60.0	963.60	999.24	1016.40	1003.42	968.00
62.5	970.20	1003.42	1015.52	1006.94	974.60
65.0	977.90	1008.70	1014.64	1011.12	981.42
67.5	985.82	1013.98	1013.32	1014.86	988.02
70.0	993.74	1018.60	1012.22	1017.94	994.18
72.5	998.80	1021.90	1010.02	1019.04	997.48
75.0	1001.44	1023.00	1006.50	1017.72	998.36
77.5	1001.00	1021.46	1000.56	1013.98	996.16
80.0	998.36	1017.72	992.64	1007.60	991.10
82.5	991.98	1010.46	982.08	998.36	983.18
85.0	982.96	1000.34	969.10	986.70	972.40
87.5	972.40	987.80	955.02	973.50	960.08
90.0	957.88	972.62	946.66	971.74	958.10
92.5	956.56	973.06	957.44	989.78	976.36
95.0	967.56	984.72	970.64	1002.76	987.80
97.5	976.36	994.84	983.40	1013.76	997.70
100.0	984.50	1003.86	994.84	1022.56	1005.84
102.5	991.10	1012.00	1005.18	1029.82	1012.22
105.0	994.62	1016.62	1012.22	1033.78	1014.86
107.5	994.40	1018.16	1016.84	1034.22	1013.76
110.0	991.10	1017.06	1019.48	1032.02	1008.92
112.5	985.82	1014.20	1020.58	1027.84	1002.10
115.0	979.22	1010.24	1020.36	1022.34	993.52
117.5	972.18	1005.84	1020.36	1016.18	984.72
120.0	964.92	1001.00	1020.36	1010.24	975.92
122.5	958.54	997.04	1020.58	1005.18	968.00
125.0	953.70	994.18	1021.02	1001.00	961.62
127.5	949.96	991.10	1020.58	997.48	956.56
130.0	947.32	988.46	1019.26	994.84	953.04
132.5	946.00	986.04	1017.50	992.64	951.28

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CANDELA TABULATION - (Cont.)

135.0	944.24	983.40	1014.20	989.56	949.30
137.5	941.82	979.00	1008.92	985.16	946.88
140.0	938.30	972.84	1001.22	979.00	943.14
142.5	933.24	964.70	990.66	970.64	938.08
145.0	925.76	953.70	977.02	959.42	930.60
147.5	914.76	939.62	960.74	944.90	919.38
150.0	900.68	920.92	940.50	927.96	905.08
152.5	885.06	900.02	915.42	907.94	889.24
155.0	867.90	879.12	889.24	883.96	870.98
157.5	847.44	858.44	866.58	860.20	850.30
160.0	826.98	835.56	843.70	839.30	829.40
162.5	806.30	810.48	816.64	815.10	808.28
165.0	784.30	786.28	790.68	790.24	785.40
167.5	763.18	763.40	766.04	766.92	763.84
170.0	743.60	742.50	743.60	745.36	744.04
172.5	727.10	724.90	724.46	727.10	727.10
175.0	713.24	711.26	709.50	713.02	713.24
177.5	704.00	702.24	700.92	704.22	704.44
180.0	700.70	700.70	700.70	700.70	700.70

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	293.89	N.A.	2.40
0-30	704.89	N.A.	5.80
0-40	1306.2	N.A.	10.70
0-60	2959.82	N.A.	24.30
0-80	5024.32	N.A.	41.20
0-90	6096.63	N.A.	50.00
10-90	6027.84	N.A.	49.40
20-40	1012.31	N.A.	8.30
20-50	1775.43	N.A.	14.60
40-70	2649.75	N.A.	21.70
60-80	2064.5	N.A.	16.90
70-80	1068.37	N.A.	8.80
80-90	1072.3	N.A.	8.80
90-110	2146.08	N.A.	17.60
90-120	3148.24	N.A.	25.80
90-130	4039.88	N.A.	33.10
90-150	5399.69	N.A.	44.30
90-180	6102.31	N.A.	50.00
110-180	3956.23	N.A.	32.40
0-180	12198.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.79
10-20	225.10
20-30	411.00
30-40	601.31
40-50	763.11
50-60	890.50
60-70	996.14
70-80	1068.37
80-90	1072.3
90-100	1072.89
100-110	1073.19
110-120	1002.16
120-130	891.64
130-140	761.02
140-150	598.79
150-160	408.67
160-170	224.98
170-180	68.98

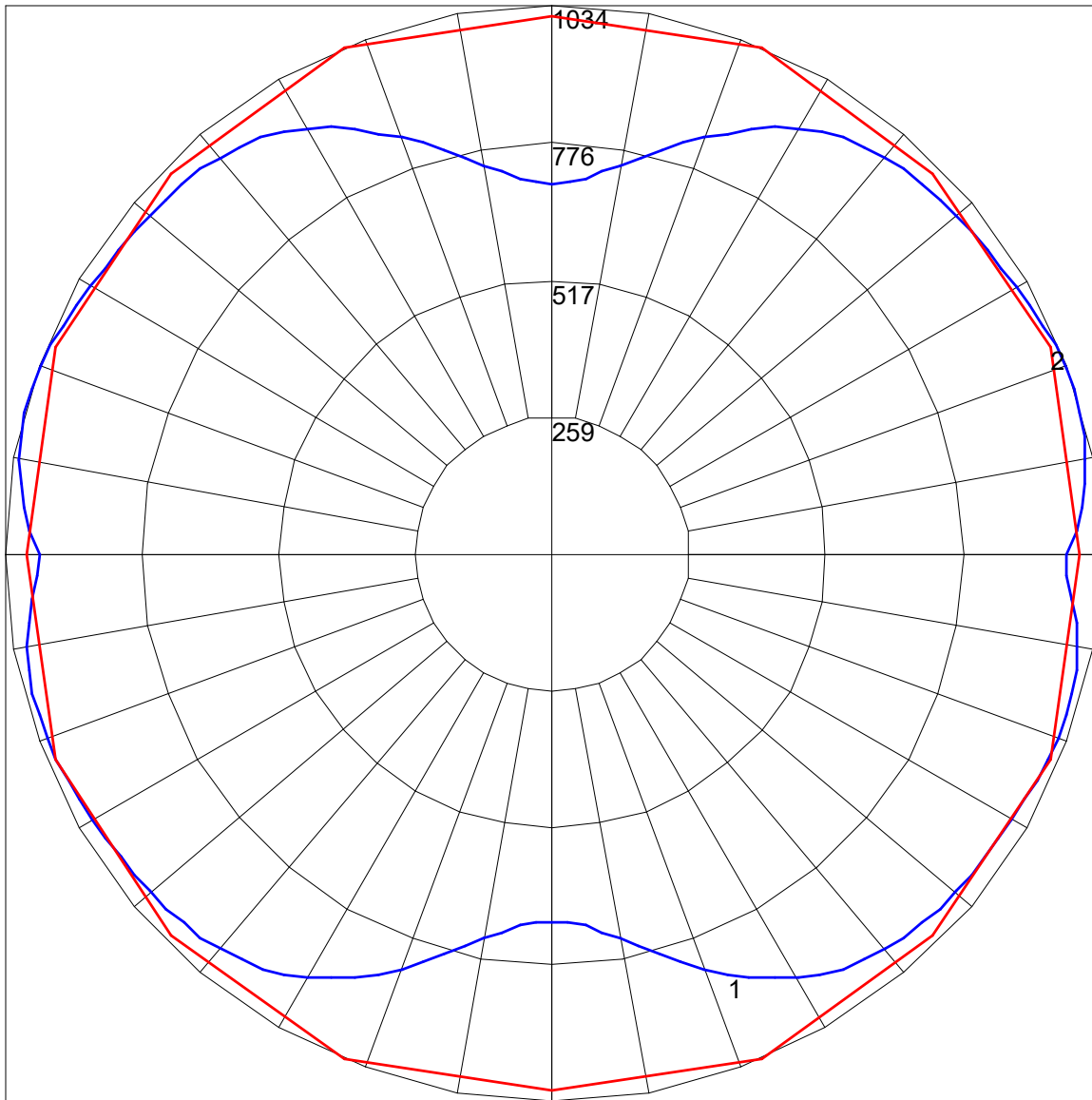
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	93	87	82	77	85	80	75	71	67	63	59	54	51	49	43	41	39	33
2	83	74	66	59	76	68	61	55	56	50	46	45	41	37	35	32	29	24
3	75	63	55	47	68	58	50	44	48	42	37	39	34	30	30	26	23	19
4	68	55	46	39	62	51	42	36	42	35	30	34	29	24	26	22	19	15
5	62	49	39	33	56	45	36	30	37	30	25	30	24	20	23	19	16	12
6	57	43	34	28	52	40	31	26	33	26	21	26	21	17	20	16	13	10
7	52	39	30	24	48	36	28	22	30	23	18	24	19	15	18	15	12	9
8	48	35	26	21	44	32	24	19	27	20	16	22	17	13	17	13	10	8
9	45	32	24	18	41	29	22	17	24	18	14	20	15	11	15	12	9	7
10	42	29	21	16	38	27	20	15	22	17	13	18	13	10	14	11	8	6

POLAR GRAPH



Maximum Candela = 1034.22 Located At Horizontal Angle = 67.5, Vertical Angle = 107.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (107.5) (Through Max. Cd.)