



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-2-LED4-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

[IESNA:]LM-63-2002

[TEST:]31978

[TESTLAB:]LIGHTING SCIENCES, INC.

[ISSUEDATE:] 8/ 8/2013

[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	7098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	72
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	1591	1663	1586
55	1923	1985	1929
65	2566	2538	2575
75	3944	3675	3932
85	8262	6944	8173

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	405.888	405.888	405.888	405.888	405.888
2.5	408.448	408.832	405.504	405.504	408.064
5.0	414.592	414.720	411.264	410.752	413.312
7.5	423.296	423.168	420.480	419.200	421.376
10.0	433.920	434.176	432.256	430.080	431.360
12.5	445.952	446.976	445.568	442.496	442.496
15.0	458.880	461.056	460.288	456.320	455.040
17.5	472.576	475.904	475.776	470.784	468.224
20.0	486.144	490.624	491.520	485.248	481.152
22.5	499.328	505.216	507.136	499.712	493.568
25.0	511.616	518.912	522.240	513.536	505.344
27.5	522.624	531.712	536.576	526.592	516.096
30.0	532.096	543.104	549.760	538.240	525.568
32.5	539.392	552.704	561.280	548.224	533.248
35.0	545.024	560.512	571.136	556.672	539.264
37.5	548.864	566.656	579.200	563.456	544.000
40.0	551.168	571.136	585.216	568.576	547.200
42.5	552.448	574.080	589.440	572.416	549.504
45.0	552.960	575.744	592.000	575.104	551.168
47.5	553.216	576.768	593.664	577.024	552.448
50.0	553.856	577.536	594.176	578.560	554.112
52.5	554.624	577.920	593.920	579.584	555.776
55.0	555.776	578.560	593.152	580.608	557.440
57.5	557.824	579.584	592.256	581.760	560.128
60.0	560.640	581.376	591.360	583.808	563.200
62.5	564.480	583.808	590.848	585.856	567.040
65.0	568.960	586.880	590.336	588.288	571.008
67.5	573.568	589.952	589.568	590.464	574.848
70.0	578.176	592.640	588.928	592.256	578.432
72.5	581.120	594.560	587.648	592.896	580.352
75.0	582.656	595.200	585.600	592.128	580.864
77.5	582.400	594.304	582.144	589.952	579.584
80.0	580.864	592.128	577.536	586.240	576.640
82.5	577.152	587.904	571.392	580.864	572.032
85.0	571.904	582.016	563.840	574.080	565.760
87.5	565.760	574.720	555.648	566.400	558.592
90.0	557.312	565.888	550.784	565.376	557.440
92.5	556.544	566.144	557.056	575.872	568.064
95.0	562.944	572.928	564.736	583.424	574.720
97.5	568.064	578.816	572.160	589.824	580.480
100.0	572.800	584.064	578.816	594.944	585.216
102.5	576.640	588.800	584.832	599.168	588.928
105.0	578.688	591.488	588.928	601.472	590.464
107.5	578.560	592.384	591.616	601.728	589.824
110.0	576.640	591.744	593.152	600.448	587.008
112.5	573.568	590.080	593.792	598.016	583.040
115.0	569.728	587.776	593.664	594.816	578.048
117.5	565.632	585.216	593.664	591.232	572.928
120.0	561.408	582.400	593.664	587.776	567.808
122.5	557.696	580.096	593.792	584.832	563.200
125.0	554.880	578.432	594.048	582.400	559.488
127.5	552.704	576.640	593.792	580.352	556.544
130.0	551.168	575.104	593.024	578.816	554.496
132.5	550.400	573.696	592.000	577.536	553.472

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CANDELA TABULATION - (Cont.)

135.0	549.376	572.160	590.080	575.744	552.320
137.5	547.968	569.600	587.008	573.184	550.912
140.0	545.920	566.016	582.528	569.600	548.736
142.5	542.976	561.280	576.384	564.736	545.792
145.0	538.624	554.880	568.448	558.208	541.440
147.5	532.224	546.688	558.976	549.760	534.912
150.0	524.032	535.808	547.200	539.904	526.592
152.5	514.944	523.648	532.608	528.256	517.376
155.0	504.960	511.488	517.376	514.304	506.752
157.5	493.056	499.456	504.192	500.480	494.720
160.0	481.152	486.144	490.880	488.320	482.560
162.5	469.120	471.552	475.136	474.240	470.272
165.0	456.320	457.472	460.032	459.776	456.960
167.5	444.032	444.160	445.696	446.208	444.416
170.0	432.640	432.000	432.640	433.664	432.896
172.5	423.040	421.760	421.504	423.040	423.040
175.0	414.976	413.824	412.800	414.848	414.976
177.5	409.600	408.576	407.808	409.728	409.856
180.0	407.680	407.680	407.680	407.680	407.680

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	170.99	N.A.	2.40
0-30	410.12	N.A.	5.80
0-40	759.97	N.A.	10.70
0-60	1722.08	N.A.	24.30
0-80	2923.24	N.A.	41.20
0-90	3547.13	N.A.	50.00
10-90	3507.11	N.A.	49.40
20-40	588.98	N.A.	8.30
20-50	1032.98	N.A.	14.60
40-70	1541.68	N.A.	21.70
60-80	1201.17	N.A.	16.90
70-80	621.59	N.A.	8.80
80-90	623.89	N.A.	8.80
90-110	1248.63	N.A.	17.60
90-120	1831.7	N.A.	25.80
90-130	2350.47	N.A.	33.10
90-150	3141.64	N.A.	44.30
90-180	3550.44	N.A.	50.00
110-180	2301.81	N.A.	32.40
0-180	7097.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.02
10-20	130.97
20-30	239.13
30-40	349.85
40-50	443.99
50-60	518.11
60-70	579.57
70-80	621.59
80-90	623.89
90-100	624.23
100-110	624.40
110-120	583.07
120-130	518.77
130-140	442.77
140-150	348.39
150-160	237.77
160-170	130.90
170-180	40.13

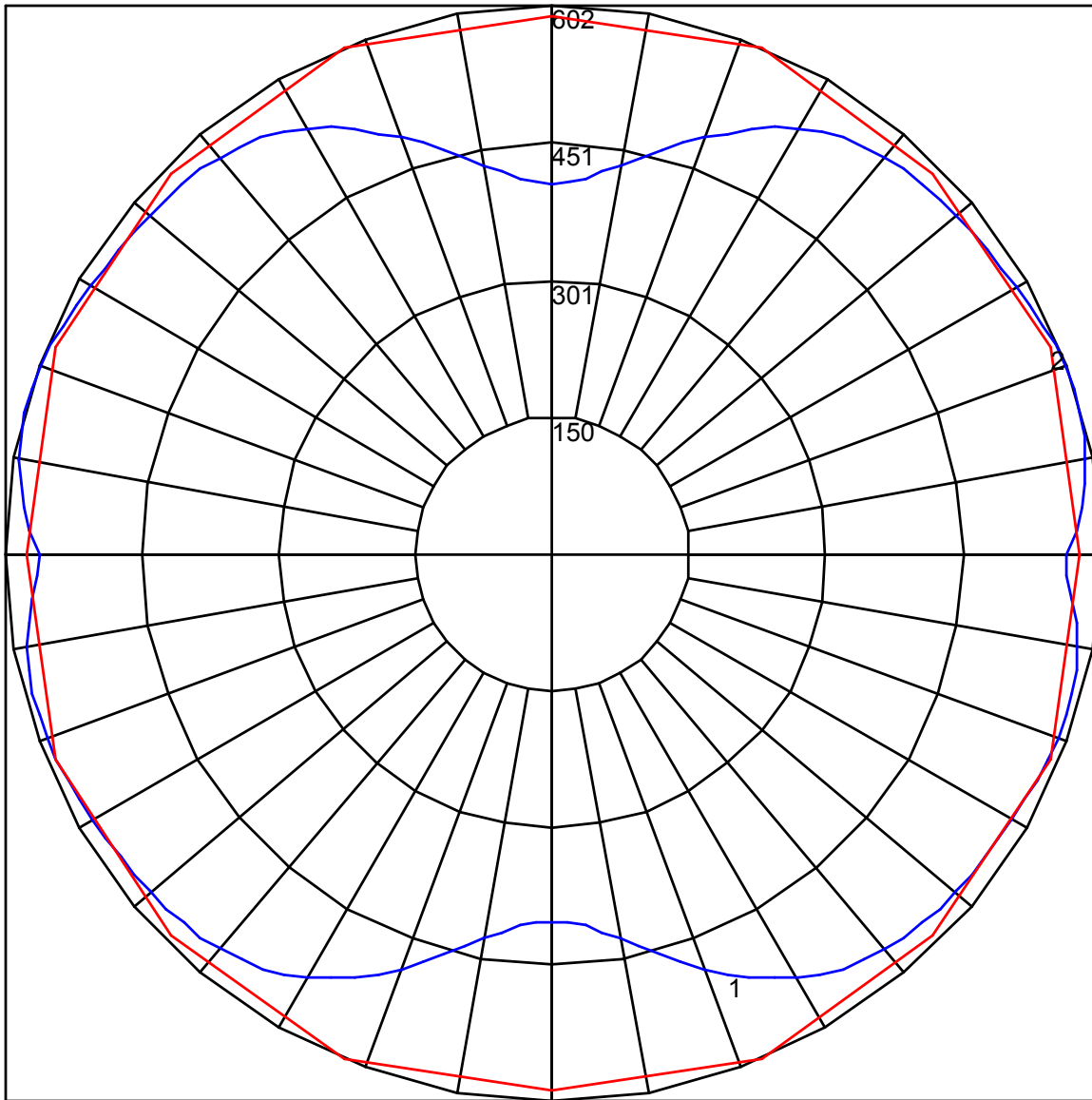
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 601.728 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.)