



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SAL\_UW1000A\_REPAIRED.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] LTL TEST NUMBER 07915  
 [DATE] 02-05-2004  
 [MANUFAC] NIPPO ELECTRIC CO., LTD.  
 [LUMCAT] SAL-UW1000A  
 [LUMINAIRE] EXTRUDED ALUMINUM HOUSING, EXTRUDED SEMI-SPECULAR ALUMINUM  
 [MORE] REFLECTOR, NO ENCLOSURE.  
 [LAMP] ONE 31 WATT 20MM LINEAR FLUORESCENT LAMP RATED AT 2550 LUMENS.  
 [BALLAST] ONE NIPPO UKAE-1110F  
 [OTHER] LAMP CATALOG NUMBER: NIPPO FRT1000EL  
 [OTHER] MOUNTING: SURFACE

**CHARACTERISTICS**

Lumens Per Lamp	2550 (1 lamp)
Total Lamp Lumens	2550
Luminaire Lumens	2412
Total Luminaire Efficiency	95 %
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.68
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.29 ft
Luminous Width (90-270)	0.16 ft
Luminous Height	0.08 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6854	7672	8378
55	6265	7801	8686
65	5421	8052	9121
75	4125	8610	9942
85	2384	9980	11484

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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	381	381	381	381	381
2.5	382	383	382	381	380
5.0	380	381	383	384	383
7.5	378	381	385	387	388
10.0	375	379	387	392	394
12.5	371	377	388	397	400
15.0	366	374	390	402	407
17.5	360	371	391	407	413
20.0	353	366	391	412	418
22.5	347	362	392	415	424
25.0	338	356	391	419	429
27.5	329	351	391	422	433
30.0	319	344	389	424	436
32.5	307	336	387	426	439
35.0	296	328	384	426	440
37.5	283	319	380	425	440
40.0	271	310	375	424	440
42.5	257	300	370	421	438
45.0	243	289	364	418	435
47.5	227	278	357	413	431
50.0	213	267	350	408	427
52.5	197	256	343	403	422
55.0	182	244	335	397	418
57.5	166	232	326	390	411
60.0	150	220	317	383	404
62.5	135	209	309	375	397
65.0	118	197	299	368	391
67.5	102	185	289	360	383
70.0	87	174	279	351	375
72.5	72	163	270	343	367
75.0	57	151	260	335	361
77.5	44	140	251	327	353
80.0	32	129	241	319	344
82.5	22	119	233	311	337
85.0	13	109	223	303	329
87.5	6	100	215	295	321
90.0	3	94	209	289	316
92.5	2	94	208	288	314
95.0	3	96	209	288	314
97.5	2	88	209	287	313
100.0	2	76	207	287	313
102.5	2	64	194	285	312
105.0	2	53	178	270	302
107.5	2	42	161	252	283
110.0	2	31	144	232	263
112.5	2	21	127	212	241
115.0	2	11	110	190	219
117.5	2	5	93	170	198
120.0	2	2	76	149	175
122.5	2	2	60	129	154
125.0	2	2	44	108	132
127.5	2	2	28	87	110
130.0	2	2	14	68	88
132.5	2	2	4	48	68
135.0	2	2	0	30	48
137.5	1	2	0	13	28
140.0	1	1	0	1	11
142.5	0	0	0	0	0
145.0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	146.58	5.70	6.10
0-30	325.68	12.80	13.50
0-40	561.55	22.00	23.30
0-60	1119.12	43.90	46.40
0-80	1648.8	64.70	68.40
0-90	1869.44	73.30	77.50
10-90	1832.83	71.90	76.00
20-40	414.97	16.30	17.20
20-50	687.17	26.90	28.50
40-70	834.63	32.70	34.60
60-80	529.68	20.80	22.00
70-80	252.62	9.90	10.50
80-90	220.64	8.70	9.10
90-110	374.29	14.70	15.50
90-120	480.02	18.80	19.90
90-130	530.06	20.80	22.00
90-150	542.36	21.30	22.50
90-180	542.36	21.30	22.50
110-180	168.07	6.60	7.00
0-180	2411.8	94.60	100.00

Total Luminaire Efficiency = 94.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.61
10-20	109.96
20-30	179.11
30-40	235.87
40-50	272.20
50-60	285.37
60-70	277.05
70-80	252.62
80-90	220.64
90-100	203.25
100-110	171.04
110-120	105.73
120-130	50.04
130-140	12.13
140-150	0.17
150-160	0.00
160-170	0.00
170-180	0.00

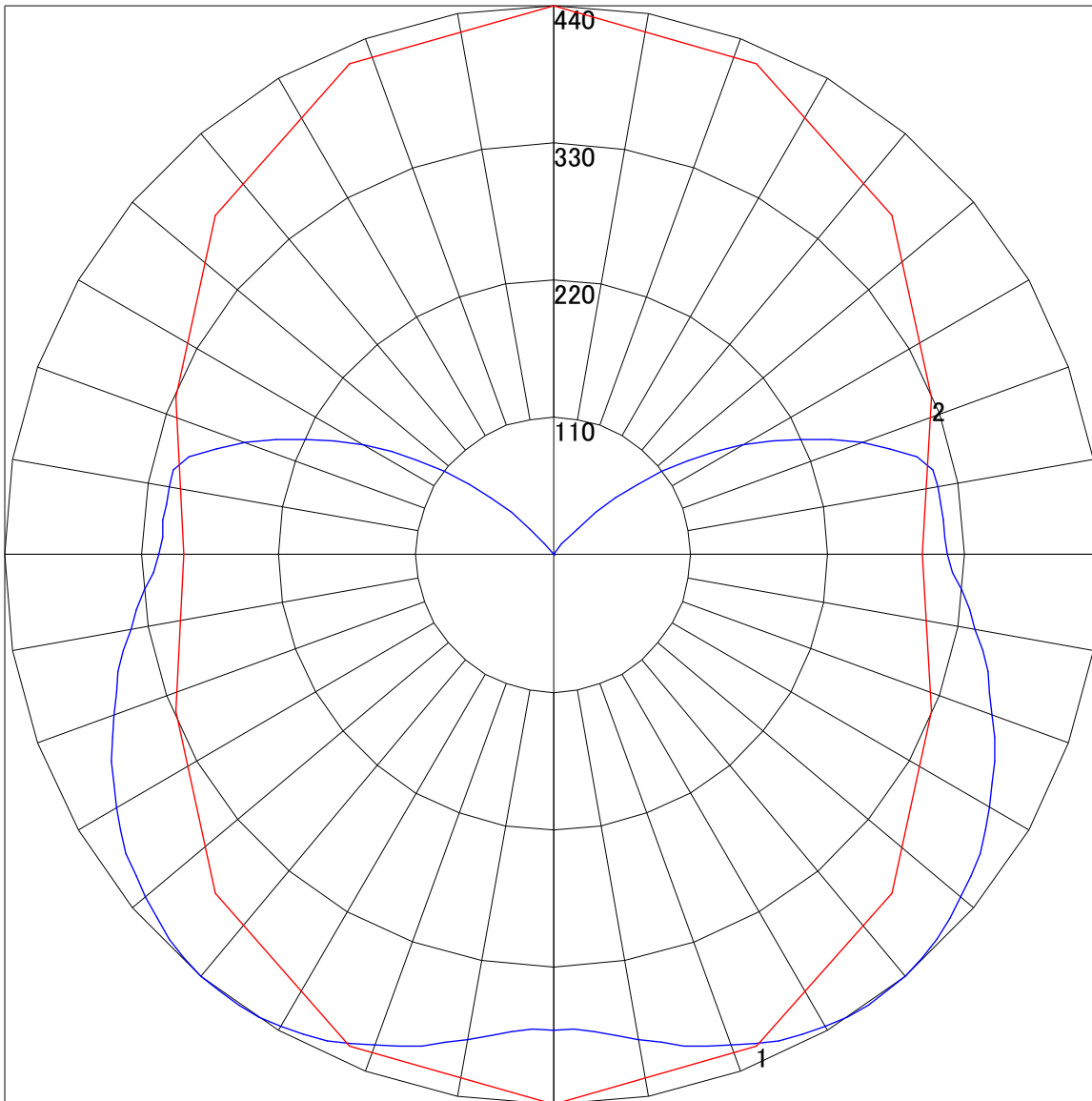
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	103	103	103	103	93	93	93	85	85	85	77	77	77	73
1	94	88	83	78	89	84	79	75	76	72	68	68	65	62	62	59	57	53
2	84	75	67	60	80	71	64	58	64	58	53	58	53	49	52	48	45	41
3	76	64	56	49	72	61	53	47	55	49	43	50	44	40	45	40	36	33
4	69	56	47	40	65	54	45	39	48	41	36	44	38	33	39	34	30	27
5	63	50	41	34	59	47	39	33	43	36	30	39	33	28	35	30	26	23
6	58	44	35	29	55	42	34	28	38	31	26	35	29	24	31	26	22	20
7	53	40	31	25	50	38	30	24	35	28	23	32	26	21	28	23	19	17
8	50	36	28	22	47	35	27	21	32	25	20	29	23	19	26	21	17	15
9	46	33	25	20	44	32	24	19	29	22	18	26	21	17	24	19	15	13
10	43	30	23	17	41	29	22	17	27	20	16	24	19	15	22	17	14	12

POLAR GRAPH



Maximum Candela = 440 Located At Horizontal Angle = 90, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)