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IES INDOOR REPORT

PHOTOMETRIC FILENAME : NSH-4101W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] TH-1150A
[ISSUE DATE] 2020/4/30 10:00
[MANUFAC]
[LUMCAT]
[LUMINAIRE] NSH-4101W-WHTE
[LAMPCAT]
[LAMP]
[VOLTAGE] 120V
[CURRENT] 0.148A
[POWERFACTOR] 0.983
[TESTLAB] Inventfine instruments
[TESTINST] GPM-1800B
[TESTDIST] 8.499m
[TESTTEMPERATURE] 26
[TESTHUMIDITY] 65
[TESTOPERATOR] Jacky tang
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	974.1 (1 lamp)
Total Lamp Lumens	974.1
Luminaire Lumens	974
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	17.45
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	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	330.56	330.56	330.56	330.56	330.56
1	330.29	330.92	330.56	330.07	330.29
2	329.97	331.26	330.34	329.63	329.97
3	329.38	331.25	330.27	329.00	329.38
4	328.83	331.02	329.87	328.36	328.83
5	328.15	330.64	329.34	327.53	328.15
6	327.23	329.86	328.26	326.84	327.23
7	325.81	329.40	327.05	326.06	325.81
8	325.06	328.64	325.77	324.87	325.06
9	323.81	327.40	324.46	323.67	323.81
10	322.23	326.51	323.29	322.68	322.23
11	320.77	325.76	322.02	321.55	320.77
12	318.88	324.29	320.86	320.32	318.88
13	317.34	322.75	319.37	319.39	317.34
14	315.14	321.05	317.60	318.50	315.14
15	313.62	319.52	316.25	317.44	313.62
16	312.05	317.81	314.61	316.10	312.05
17	310.32	315.80	312.72	314.68	310.32
18	308.13	313.62	310.58	313.04	308.13
19	306.53	311.39	308.93	311.42	306.53
20	304.55	308.79	306.78	309.58	304.55
21	302.29	306.06	303.91	307.46	302.29
22	300.07	303.60	301.68	304.63	300.07
23	297.19	300.60	298.79	301.26	297.19
24	293.82	298.13	296.16	297.20	293.82
25	289.75	295.62	293.43	292.32	289.75
26	285.40	292.82	290.36	286.04	285.40
27	279.19	289.39	287.11	277.81	279.19
28	271.95	286.20	283.30	268.67	271.95
29	262.62	282.46	277.65	257.10	262.62
30	250.66	278.12	270.24	242.55	250.66
31	236.05	272.62	261.24	226.93	236.05
32	221.41	265.74	250.73	210.16	221.41
33	207.02	256.85	238.32	192.23	207.02
34	189.23	247.76	223.95	173.46	189.23
35	170.82	237.44	209.95	151.66	170.82
36	153.48	226.65	195.22	132.12	153.48
37	134.80	215.35	178.86	113.62	134.80
38	118.06	202.72	162.26	97.22	118.06
39	100.56	191.01	143.44	80.96	100.56
40	87.08	178.91	126.58	69.86	87.08
41	76.23	166.10	110.51	60.58	76.23
42	66.29	151.77	95.99	52.18	66.29
43	57.67	138.70	82.81	46.14	57.67
44	51.53	126.26	70.83	41.17	51.53
45	45.82	114.45	61.82	37.03	45.82
46	41.17	102.45	54.83	33.52	41.17
47	37.56	92.79	49.10	30.66	37.56
48	33.97	84.39	44.20	28.34	33.97
49	31.42	76.31	39.93	27.27	31.42
50	29.38	70.25	36.57	27.12	29.38
51	27.62	65.01	33.62	26.58	27.62
52	26.54	60.69	31.78	25.73	26.54
53	25.52	56.67	30.15	24.70	25.52

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CANDELA TABULATION - (Cont.)

54	24.78	53.42	28.48	23.53	24.78
55	23.89	50.66	26.73	22.45	23.89
56	22.98	47.73	24.97	21.50	22.98
57	22.15	45.23	23.52	20.62	22.15
58	21.44	42.80	22.31	19.88	21.44
59	20.73	40.42	21.19	19.19	20.73
60	19.95	38.35	20.26	18.42	19.95
61	19.27	36.41	19.42	17.76	19.27
62	18.58	34.40	18.66	17.06	18.58
63	17.85	32.74	17.83	16.38	17.85
64	17.04	31.11	17.15	15.73	17.04
65	16.34	29.59	16.41	14.95	16.34
66	15.60	28.11	15.61	14.30	15.60
67	14.90	26.84	14.89	13.62	14.90
68	14.21	25.66	14.19	12.95	14.21
69	13.44	24.43	13.44	12.33	13.44
70	12.78	23.32	12.74	11.68	12.78
71	12.11	22.29	12.08	11.13	12.11
72	11.50	21.23	11.38	10.56	11.50
73	10.83	20.00	10.78	10.05	10.83
74	10.23	18.37	10.21	9.58	10.23
75	9.65	16.90	9.56	9.10	9.65
76	9.09	15.50	8.98	8.70	9.09
77	8.49	14.29	8.48	8.36	8.49
78	8.01	13.51	8.01	8.09	8.01
79	7.51	12.71	7.59	7.86	7.51
80	7.05	12.01	7.21	7.68	7.05
81	6.67	11.34	6.86	7.56	6.67
82	6.36	10.68	6.56	7.60	6.36
83	6.03	10.02	6.34	7.66	6.03
84	5.63	9.40	6.07	7.66	5.63
85	5.06	8.78	5.61	7.64	5.06
86	4.38	8.18	5.02	7.60	4.38
87	3.46	7.64	4.23	7.59	3.46
88	2.46	7.05	3.23	7.50	2.46
89	1.35	6.51	2.19	7.35	1.35
90	0.36	5.61	1.07	6.96	0.36
91	0.96	6.16	1.99	7.15	0.96
92	2.07	6.68	2.96	7.27	2.07
93	3.10	7.20	3.96	7.37	3.10
94	3.99	7.80	4.73	7.43	3.99
95	4.77	8.38	5.39	7.45	4.77
96	5.33	8.99	5.77	7.45	5.33
97	5.73	9.54	6.12	7.48	5.73
98	6.02	10.18	6.33	7.43	6.02
99	6.38	10.85	6.54	7.38	6.38
100	6.77	11.50	6.93	7.48	6.77
101	7.16	12.23	7.27	7.61	7.16
102	7.64	12.96	7.72	7.89	7.64
103	8.18	13.82	8.19	8.16	8.18
104	8.72	14.80	8.69	8.50	8.72
105	9.29	16.25	9.27	8.85	9.29
106	9.87	17.69	9.91	9.31	9.87
107	10.46	19.17	10.50	9.77	10.46
108	11.11	20.63	11.04	10.34	11.11
109	11.72	21.59	11.75	10.83	11.72

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CANDELA TABULATION - (Cont.)

110	12.41	22.57	12.38	11.41	12.41
111	13.06	23.61	13.13	12.00	13.06
112	13.75	24.81	13.80	12.61	13.75
113	14.49	26.23	14.50	13.26	14.49
114	15.23	27.46	15.23	13.99	15.23
115	15.91	28.81	16.00	14.64	15.91
116	16.61	30.32	16.72	15.33	16.61
117	17.32	32.04	17.53	15.98	17.32
118	18.07	33.70	18.22	16.61	18.07
119	18.80	35.51	18.97	17.30	18.80
120	19.48	37.58	19.90	17.97	19.48
121	20.14	39.65	20.83	18.72	20.14
122	20.88	41.77	21.83	19.42	20.88
123	21.61	44.38	23.17	20.14	21.61
124	22.47	46.91	24.58	21.05	22.47
125	23.21	49.52	26.17	21.97	23.21
126	24.25	52.49	27.86	22.98	24.25
127	24.94	55.74	29.70	24.13	24.94
128	25.90	59.40	31.17	25.16	25.90
129	27.02	63.58	32.92	26.01	27.02
130	28.49	68.68	36.10	26.51	28.49
131	30.59	75.07	39.44	26.74	30.59
132	33.03	82.26	43.29	27.73	33.03
133	36.64	90.51	48.09	29.81	36.64
134	40.00	99.96	54.39	32.54	40.00
135	44.24	111.57	61.37	36.27	44.24
136	49.94	123.06	70.33	40.33	49.94
137	55.84	135.32	81.08	45.23	55.84
138	63.25	149.51	94.04	51.18	63.25
139	73.76	162.33	108.38	58.60	73.76
140	84.24	174.84	124.27	68.43	84.24
141	97.07	186.88	142.39	79.38	97.07
142	114.15	199.59	159.32	93.68	114.15
143	130.84	210.88	175.80	109.76	130.84
144	147.59	222.03	193.36	129.52	147.59
145	166.41	232.63	207.95	148.71	166.41
146	184.48	242.93	221.68	168.32	184.48
147	202.51	252.82	234.55	186.99	202.51
148	216.99	260.72	246.66	206.30	216.99
149	231.27	267.69	257.34	223.02	231.27
150	245.90	273.23	266.23	238.31	245.90
151	258.24	277.52	274.21	251.45	258.24
152	267.84	281.40	279.23	263.78	267.84
153	275.92	284.67	283.15	272.77	275.92
154	281.49	287.78	286.61	281.03	281.49
155	285.99	290.41	289.65	287.15	285.99
156	290.11	293.39	292.30	292.52	290.11
157	293.14	295.90	294.57	296.47	293.14
158	295.97	298.31	297.52	299.83	295.97
159	298.39	301.05	299.82	302.19	298.39
160	300.49	303.61	302.60	304.16	300.49
161	302.64	306.24	304.75	305.90	302.64
162	304.67	308.66	306.48	308.88	304.67
163	306.65	310.63	308.63	310.39	306.65
164	308.40	312.42	310.36	311.89	308.40
165	310.32	314.18	312.15	313.26	310.32

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166	311.90	315.83	313.43	313.32	311.90
167	313.61	317.30	315.16	314.07	313.61
168	315.26	318.94	316.65	315.01	315.26
169	316.73	320.33	317.82	315.72	316.73
170	318.05	321.28	319.03	317.09	318.05
171	319.62	322.18	320.33	318.33	319.62
172	320.93	323.17	321.62	319.53	320.93
173	321.88	324.02	322.87	320.33	321.88
174	322.84	324.67	324.11	321.02	322.84
175	323.88	325.33	325.04	321.76	323.88
176	324.75	325.68	325.75	322.40	324.75
177	325.42	325.72	326.16	323.13	325.42
178	325.68	325.78	326.39	323.90	325.68
179	326.08	326.63	326.42	325.82	326.08
180	326.21	326.21	326.21	326.21	326.21

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	120.64	12.40	12.40
0-30	254.22	26.10	26.10
0-40	372.29	38.20	38.20
0-60	453.19	46.50	46.50
0-80	484.58	49.70	49.70
0-90	491.64	50.50	50.50
10-90	460.42	47.30	47.30
20-40	251.65	25.80	25.80
20-50	304.55	31.30	31.30
40-70	100.15	10.30	10.30
60-80	31.38	3.20	3.20
70-80	12.14	1.20	1.20
80-90	7.07	0.70	0.70
90-110	18.48	1.90	1.90
90-120	37.24	3.80	3.80
90-130	64.66	6.60	6.60
90-150	232.06	23.80	23.80
90-180	482.49	49.50	49.50
110-180	464.01	47.60	47.60
0-180	974.13	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.22
10-20	89.42
20-30	133.58
30-40	118.07
40-50	52.89
50-60	28.01
60-70	19.24
70-80	12.14
80-90	7.07
90-100	6.75
100-110	11.73
110-120	18.76
120-130	27.42
130-140	51.69
140-150	115.71
150-160	131.51
160-170	88.14
170-180	30.76

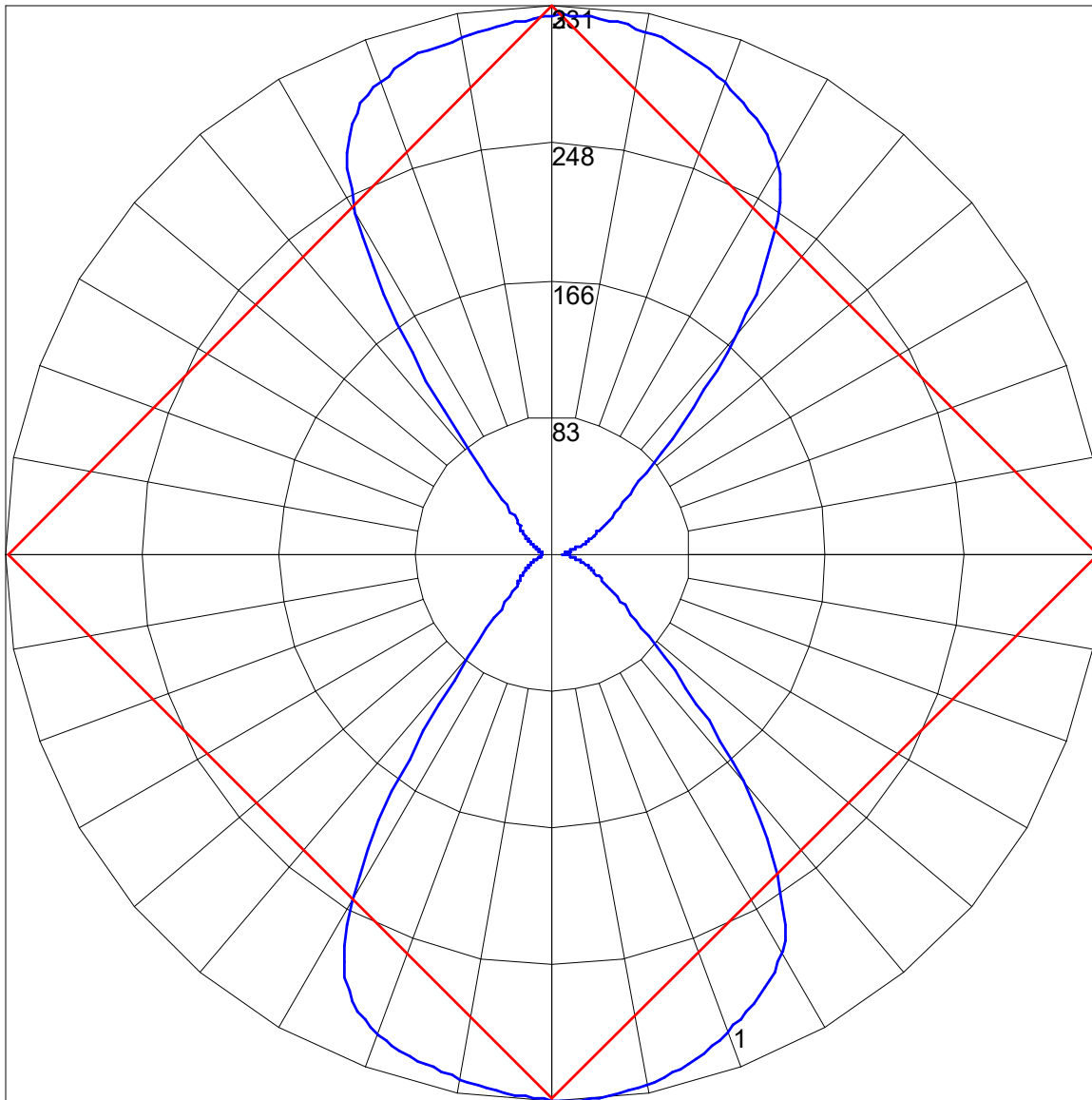
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	84	84	70	70	70	57	57	57	50
1	99	95	92	89	92	88	85	83	75	73	71	63	62	60	52	51	50	45
2	92	85	80	75	85	79	74	71	68	64	62	57	55	53	48	46	45	40
3	85	76	70	65	78	71	66	61	61	57	54	52	49	47	44	42	40	36
4	78	69	62	57	73	64	58	54	56	51	48	48	45	42	41	38	36	33
5	73	62	55	50	67	58	52	47	51	46	42	44	40	38	38	35	33	30
6	68	57	50	44	63	53	47	42	47	42	38	41	37	34	35	32	30	27
7	63	52	45	40	59	49	43	38	43	38	34	38	34	31	32	30	27	25
8	59	48	41	36	55	45	39	34	40	35	31	35	31	28	30	27	25	23
9	55	44	37	33	51	42	35	31	37	32	29	32	29	26	28	25	23	21
10	52	41	34	30	48	39	33	29	34	30	26	30	27	24	27	24	22	20

POLAR GRAPH



Maximum Candela = 331.26 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)