

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SUF182400L30D2XX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTDATE] 01/18/2019
 [LUMCAT] SUF182400L30D2SN
 [LUMINAIRE] Ceiling Fixture
 [LAMP] LED
 [TEST] 103792309CHI-001
 [TESTLAB] Intertek
 [ISSUEDATE]
 [MANUFAC] AFX Inc

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	29.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Sphere
Luminous Length (0-180)	1.46 ft (Diameter)
Luminous Width (90-270)	1.46 ft (Diameter)
Luminous Height	0.37 ft (Diameter)

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1522	1506	1515
55	1265	1244	1258
65	998	976	994
75	714	695	714
85	456	448	464

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5
2.5	343.3	342.8	343.0	343.3	343.4	343.3	343.1	343.0	343.4	343.0
5.0	342.3	341.7	341.8	342.2	342.4	342.4	342.1	342.1	342.3	342.1
7.5	340.6	339.8	340.0	340.4	340.7	340.6	340.4	340.4	340.5	340.4
10.0	338.1	337.2	337.4	337.8	338.1	338.2	338.0	337.9	338.0	337.9
12.5	334.9	333.9	334.1	334.5	335.0	335.0	334.8	334.8	334.7	334.8
15.0	331.2	330.0	330.2	330.5	331.1	331.2	331.0	331.0	330.7	331.0
17.5	327.0	325.4	325.6	326.0	326.5	326.8	326.7	326.6	325.9	326.6
20.0	321.9	320.1	320.3	320.8	321.3	321.6	321.5	321.6	320.5	321.6
22.5	316.2	314.2	314.4	314.9	315.4	315.8	315.8	315.8	314.5	315.8
25.0	309.7	307.6	307.9	308.4	308.9	309.4	309.4	309.4	308.0	309.4
27.5	302.7	300.4	300.8	301.2	301.9	302.3	302.4	302.3	300.9	302.3
30.0	295.3	292.6	293.0	293.3	294.1	294.6	294.7	294.7	293.0	294.7
32.5	286.9	284.2	284.6	285.0	285.7	286.3	286.4	286.5	284.4	286.5
35.0	277.9	275.2	275.6	276.2	276.8	277.4	277.6	277.8	275.3	277.8
37.5	268.3	265.7	266.1	266.6	267.2	267.8	268.2	268.2	265.8	268.2
40.0	258.3	255.4	255.9	256.3	257.0	257.6	258.0	258.1	255.6	258.1
42.5	247.8	244.6	245.3	245.7	246.4	246.9	247.4	247.6	244.8	247.6
45.0	237.0	233.8	234.4	235.0	235.9	236.4	237.0	237.2	234.4	237.2
47.5	226.6	223.5	223.9	224.7	225.6	226.4	227.0	227.2	224.4	227.2
50.0	216.8	213.6	213.8	214.5	215.6	216.8	217.3	217.4	214.7	217.4
52.5	206.9	203.6	203.7	204.4	205.7	207.1	207.7	207.7	204.9	207.7
55.0	197.0	193.6	193.6	194.3	195.9	197.3	198.0	198.0	195.0	198.0
57.5	187.0	183.3	183.5	184.3	185.9	187.4	188.2	188.2	184.9	188.2
60.0	176.7	172.9	173.1	174.0	175.7	177.3	178.1	178.2	174.7	178.2
62.5	166.2	162.4	162.5	163.5	165.3	167.0	167.8	168.0	164.5	168.0
65.0	155.4	151.9	151.9	152.9	154.7	156.5	157.4	157.7	154.2	157.7
67.5	144.7	141.1	141.2	142.2	144.0	145.8	146.9	147.2	143.6	147.2
70.0	133.6	130.1	130.3	131.3	133.0	135.0	136.2	136.5	133.0	136.5
72.5	122.4	119.0	119.2	120.3	122.0	124.0	125.3	125.7	122.1	125.7
75.0	111.1	108.0	108.2	109.4	111.1	113.1	114.3	114.9	111.3	114.9
77.5	100.1	97.1	97.5	98.7	100.5	102.3	103.5	104.2	100.7	104.2
80.0	89.5	86.6	87.0	88.2	90.0	91.7	92.9	93.6	90.5	93.6
82.5	79.6	77.0	77.5	78.7	80.3	82.0	83.2	83.9	81.3	83.9
85.0	71.0	69.3	69.7	70.9	72.3	73.8	75.1	75.7	73.7	75.7
87.5	64.4	63.0	63.5	64.7	66.0	67.5	68.7	69.3	68.1	69.3
90.0	59.5	58.6	59.0	60.2	61.7	63.1	64.2	64.8	63.9	64.8
92.5	56.8	56.1	56.6	57.7	59.2	60.5	61.5	62.0	61.4	62.0
95.0	55.8	55.3	55.8	56.8	58.2	59.5	60.3	60.8	60.5	60.8
97.5	56.2	55.8	56.3	57.4	58.8	59.8	60.7	61.2	60.9	61.2
100.0	57.6	57.3	57.8	58.8	60.2	61.2	62.1	62.6	62.4	62.6
102.5	59.2	58.9	59.4	60.3	61.7	62.6	63.7	64.2	64.2	64.2
105.0	60.7	60.4	60.9	61.8	63.2	64.0	65.2	65.9	65.9	65.9
107.5	62.5	61.8	62.4	63.1	64.5	65.2	66.5	67.2	67.6	67.2
110.0	64.2	62.9	63.7	64.2	65.5	66.1	67.9	68.4	69.1	68.4
112.5	65.6	64.0	65.0	65.3	66.5	67.2	68.9	69.5	70.1	69.5
115.0	66.8	65.2	66.1	66.2	67.5	68.2	69.8	70.6	71.3	70.6
117.5	67.7	66.6	67.1	67.3	68.4	69.3	70.6	71.8	72.2	71.8
120.0	68.3	67.8	68.0	68.5	69.2	70.4	71.4	72.9	72.9	72.9
122.5	68.9	68.9	68.5	69.5	69.9	71.3	71.9	73.8	73.6	73.8
125.0	69.5	69.5	69.1	70.3	70.7	72.1	72.5	74.5	74.2	74.5
127.5	69.7	70.1	69.7	71.0	71.4	72.8	73.2	75.0	74.9	75.0
130.0	70.3	70.4	70.4	71.6	72.1	73.1	73.7	75.4	75.5	75.4
132.5	70.8	70.6	70.9	71.9	72.6	73.5	74.1	75.5	75.8	75.5

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135.0	71.0	70.7	71.1	72.0	72.7	73.6	74.3	75.5	75.8	75.5
137.5	70.9	70.6	71.0	72.0	72.6	73.5	74.2	75.3	75.6	75.3
140.0	70.6	70.7	70.7	71.8	72.4	73.3	73.9	75.1	75.1	75.1
142.5	70.1	70.4	70.2	71.4	71.9	72.9	73.3	74.8	74.5	74.8
145.0	69.7	70.0	69.5	70.8	71.2	72.3	72.6	74.3	73.6	74.3
147.5	68.6	69.4	68.6	70.0	70.3	71.7	71.8	73.6	72.5	73.6
150.0	67.4	68.5	67.7	69.0	69.2	70.6	70.8	72.6	71.3	72.6
152.5	66.1	67.4	66.9	67.9	68.1	69.4	69.7	71.5	70.0	71.5
155.0	64.7	66.1	65.8	66.8	67.1	68.0	68.5	70.1	68.9	70.1
157.5	63.3	64.7	64.7	65.4	66.0	66.8	67.4	68.5	67.4	68.5
160.0	62.0	63.3	63.6	64.1	64.7	65.3	66.1	67.1	65.9	67.1
162.5	61.4	63.3	63.2	64.3	64.2	65.0	65.5	66.8	65.9	66.8
165.0	63.3	65.4	64.9	66.3	65.5	66.5	66.6	68.1	67.3	68.1
167.5	65.5	66.9	66.5	67.4	66.9	67.7	67.8	69.2	68.5	69.2
170.0	67.0	67.6	67.8	67.8	67.8	68.2	68.8	69.5	69.0	69.5
172.5	68.4	68.0	68.8	68.2	68.5	68.5	69.6	69.8	69.8	69.8
175.0	69.7	68.7	69.9	68.7	69.1	68.9	70.1	69.9	70.2	69.9
177.5	70.6	69.5	70.6	69.3	69.7	69.3	70.8	70.2	70.8	70.2
180.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	343.5	343.5	343.5	343.5	343.5	343.5	343.5
2.5	343.1	343.3	343.4	343.3	343.0	342.8	343.3
5.0	342.1	342.4	342.4	342.2	341.8	341.7	342.3
7.5	340.4	340.6	340.7	340.4	340.0	339.8	340.6
10.0	338.0	338.2	338.1	337.8	337.4	337.2	338.1
12.5	334.8	335.0	335.0	334.5	334.1	333.9	334.9
15.0	331.0	331.2	331.1	330.5	330.2	330.0	331.2
17.5	326.7	326.8	326.5	326.0	325.6	325.4	327.0
20.0	321.5	321.6	321.3	320.8	320.3	320.1	321.9
22.5	315.8	315.8	315.4	314.9	314.4	314.2	316.2
25.0	309.4	309.4	308.9	308.4	307.9	307.6	309.7
27.5	302.4	302.3	301.9	301.2	300.8	300.4	302.7
30.0	294.7	294.6	294.1	293.3	293.0	292.6	295.3
32.5	286.4	286.3	285.7	285.0	284.6	284.2	286.9
35.0	277.6	277.4	276.8	276.2	275.6	275.2	277.9
37.5	268.2	267.8	267.2	266.6	266.1	265.7	268.3
40.0	258.0	257.6	257.0	256.3	255.9	255.4	258.3
42.5	247.4	246.9	246.4	245.7	245.3	244.6	247.8
45.0	237.0	236.4	235.9	235.0	234.4	233.8	237.0
47.5	227.0	226.4	225.6	224.7	223.9	223.5	226.6
50.0	217.3	216.8	215.6	214.5	213.8	213.6	216.8
52.5	207.7	207.1	205.7	204.4	203.7	203.6	206.9
55.0	198.0	197.3	195.9	194.3	193.6	193.6	197.0
57.5	188.2	187.4	185.9	184.3	183.5	183.3	187.0
60.0	178.1	177.3	175.7	174.0	173.1	172.9	176.7
62.5	167.8	167.0	165.3	163.5	162.5	162.4	166.2
65.0	157.4	156.5	154.7	152.9	151.9	151.9	155.4
67.5	146.9	145.8	144.0	142.2	141.2	141.1	144.7
70.0	136.2	135.0	133.0	131.3	130.3	130.1	133.6
72.5	125.3	124.0	122.0	120.3	119.2	119.0	122.4
75.0	114.3	113.1	111.1	109.4	108.2	108.0	111.1
77.5	103.5	102.3	100.5	98.7	97.5	97.1	100.1
80.0	92.9	91.7	90.0	88.2	87.0	86.6	89.5

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CANDELA TABULATION - (Cont.)

82.5	83.2	82.0	80.3	78.7	77.5	77.0	79.6
85.0	75.1	73.8	72.3	70.9	69.7	69.3	71.0
87.5	68.7	67.5	66.0	64.7	63.5	63.0	64.4
90.0	64.2	63.1	61.7	60.2	59.0	58.6	59.5
92.5	61.5	60.5	59.2	57.7	56.6	56.1	56.8
95.0	60.3	59.5	58.2	56.8	55.8	55.3	55.8
97.5	60.7	59.8	58.8	57.4	56.3	55.8	56.2
100.0	62.1	61.2	60.2	58.8	57.8	57.3	57.6
102.5	63.7	62.6	61.7	60.3	59.4	58.9	59.2
105.0	65.2	64.0	63.2	61.8	60.9	60.4	60.7
107.5	66.5	65.2	64.5	63.1	62.4	61.8	62.5
110.0	67.9	66.1	65.5	64.2	63.7	62.9	64.2
112.5	68.9	67.2	66.5	65.3	65.0	64.0	65.6
115.0	69.8	68.2	67.5	66.2	66.1	65.2	66.8
117.5	70.6	69.3	68.4	67.3	67.1	66.6	67.7
120.0	71.4	70.4	69.2	68.5	68.0	67.8	68.3
122.5	71.9	71.3	69.9	69.5	68.5	68.9	68.9
125.0	72.5	72.1	70.7	70.3	69.1	69.5	69.5
127.5	73.2	72.8	71.4	71.0	69.7	70.1	69.7
130.0	73.7	73.1	72.1	71.6	70.4	70.4	70.3
132.5	74.1	73.5	72.6	71.9	70.9	70.6	70.8
135.0	74.3	73.6	72.7	72.0	71.1	70.7	71.0
137.5	74.2	73.5	72.6	72.0	71.0	70.6	70.9
140.0	73.9	73.3	72.4	71.8	70.7	70.7	70.6
142.5	73.3	72.9	71.9	71.4	70.2	70.4	70.1
145.0	72.6	72.3	71.2	70.8	69.5	70.0	69.7
147.5	71.8	71.7	70.3	70.0	68.6	69.4	68.6
150.0	70.8	70.6	69.2	69.0	67.7	68.5	67.4
152.5	69.7	69.4	68.1	67.9	66.9	67.4	66.1
155.0	68.5	68.0	67.1	66.8	65.8	66.1	64.7
157.5	67.4	66.8	66.0	65.4	64.7	64.7	63.3
160.0	66.1	65.3	64.7	64.1	63.6	63.3	62.0
162.5	65.5	65.0	64.2	64.3	63.2	63.3	61.4
165.0	66.6	66.5	65.5	66.3	64.9	65.4	63.3
167.5	67.8	67.7	66.9	67.4	66.5	66.9	65.5
170.0	68.8	68.2	67.8	67.8	67.8	67.6	67.0
172.5	69.6	68.5	68.5	68.2	68.8	68.0	68.4
175.0	70.1	68.9	69.1	68.7	69.9	68.7	69.7
177.5	70.8	69.3	69.7	69.3	70.6	69.5	70.6
180.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	125.90	N.A.	8.00
0-30	268.21	N.A.	17.10
0-40	441.26	N.A.	28.10
0-60	798.80	N.A.	50.90
0-80	1069.7	N.A.	68.10
0-90	1150.05	N.A.	73.20
10-90	1117.53	N.A.	71.20
20-40	315.36	N.A.	20.10
20-50	497.63	N.A.	31.70
40-70	510.75	N.A.	32.50
60-80	270.89	N.A.	17.30
70-80	117.69	N.A.	7.50
80-90	80.35	N.A.	5.10
90-110	131.15	N.A.	8.40
90-120	198.44	N.A.	12.60
90-130	262.34	N.A.	16.70
90-150	363.58	N.A.	23.20
90-180	420.08	N.A.	26.80
110-180	288.93	N.A.	18.40
0-180	1570.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.52
10-20	93.38
20-30	142.32
30-40	173.04
40-50	182.27
50-60	175.28
60-70	153.20
70-80	117.69
80-90	80.35
90-100	64.54
100-110	66.61
110-120	67.29
120-130	63.91
130-140	56.35
140-150	44.89
150-160	31.24
160-170	18.68
170-180	6.59

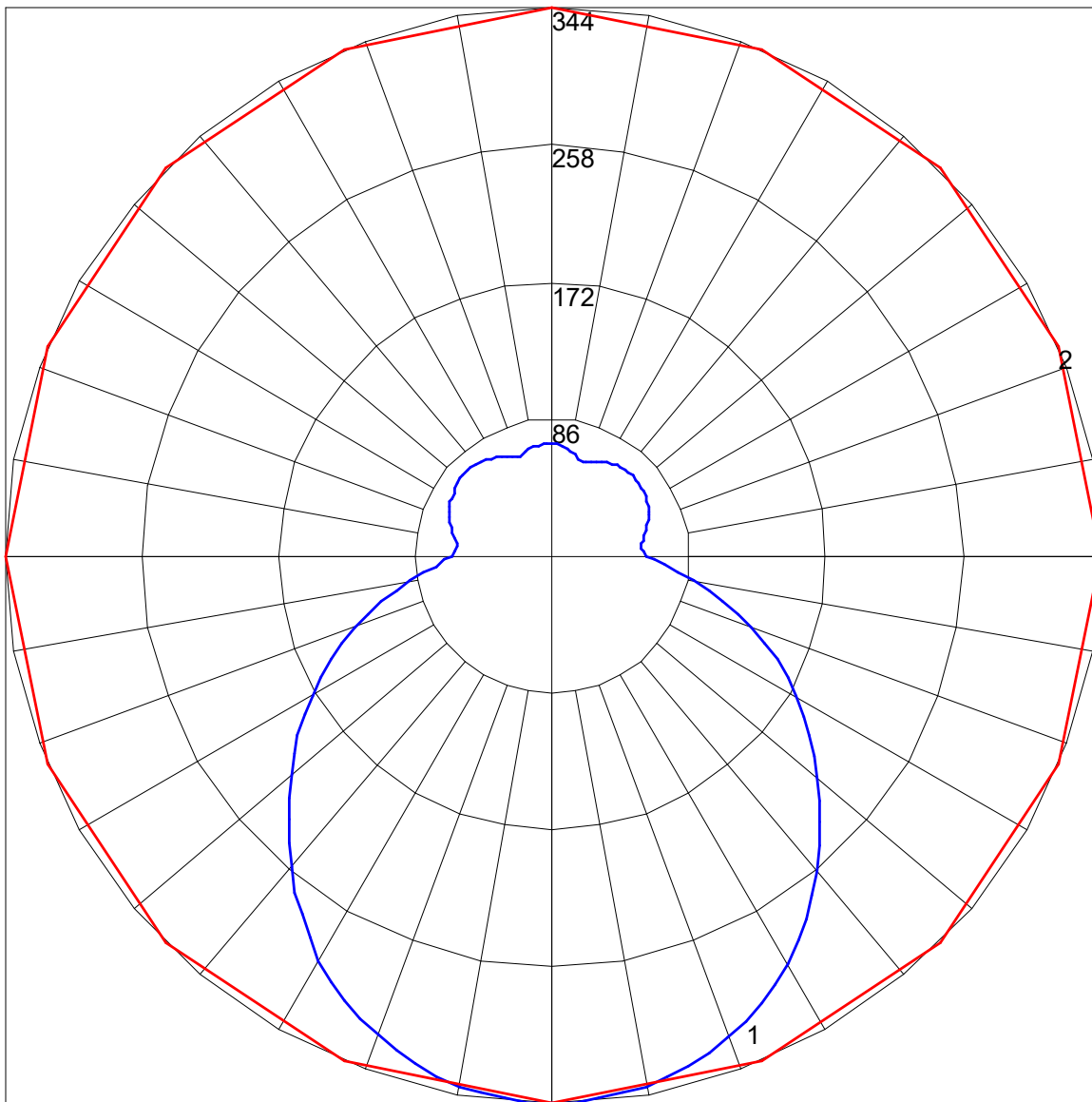
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	101	95	91	86	95	91	86	82	81	78	75	73	70	68	65	63	61	57
2	91	82	75	69	86	78	71	66	70	65	60	63	59	55	56	53	50	46
3	83	72	63	56	78	68	60	54	61	55	50	55	50	46	49	45	42	38
4	75	63	54	47	71	60	52	46	54	47	42	49	43	39	44	39	35	32
5	69	56	47	40	65	53	45	39	48	41	36	43	38	33	39	34	31	28
6	64	50	41	35	60	48	40	34	43	36	31	39	33	29	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	36	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	24	33	27	23	29	25	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	28	22	18	25	21	17	15

POLAR GRAPH



Maximum Candela = 343.5 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)