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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FAB CREM 48 DRUM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-2

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Textile Woven Fabric (FAB) - Cream (CREM) 48" Drum Pendant

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FAB CREM 48" Drum

[MORE] Metal support structure and white plastic/fabric drum with diffuse white plastic bottom lens.

[MORE] 80 LEDs in eight lamps each with 10 LEDs mounted in circular array and plastic dome lens

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[DATE] This file created: Tuesday, August 7, 2018 9:58:52 AM

[ISSUEDATE] Tuesday, August 7, 2018 9:58:52 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	60
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	Circular w/ Sides
Luminous Length (0-180)	1.22 m (Diameter)
Luminous Width (90-270)	1.22 m (Diameter)
Luminous Height	0.37 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	394	394	394
55	343	343	343
65	283	283	283
75	208	208	208
85	104	104	104

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CANDELA TABULATION

	<u>0</u>
0.0	673.08
0.5	673.09
1.0	672.94
1.5	672.77
2.0	672.57
2.5	672.25
3.0	671.88
3.5	671.41
4.0	670.97
4.5	670.40
5.0	669.68
5.5	668.96
6.0	668.18
6.5	667.33
7.0	666.53
7.5	665.66
8.0	664.73
8.5	663.73
9.0	662.73
9.5	661.64
10.0	660.49
10.5	659.27
11.0	658.03
11.5	656.67
12.0	655.32
12.5	653.90
13.0	652.37
13.5	650.84
14.0	649.31
14.5	647.59
15.0	645.86
15.5	644.10
16.0	642.27
16.5	640.35
17.0	638.38
17.5	636.37
18.0	634.30
18.5	632.20
19.0	630.06
19.5	627.82
20.0	625.53
20.5	623.14
21.0	620.80
21.5	618.32
22.0	615.84
22.5	613.26
23.0	610.72
23.5	608.01
24.0	605.32
24.5	602.55
25.0	599.72
25.5	596.84
26.0	593.92
26.5	591.06

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CANDELA TABULATION - (Cont.)

27.0	587.94
27.5	584.93
28.0	581.85
28.5	578.67
29.0	575.49
29.5	572.23
30.0	568.92
30.5	565.53
31.0	562.15
31.5	558.73
32.0	555.38
32.5	551.80
33.0	548.19
33.5	544.57
34.0	540.93
34.5	537.29
35.0	533.56
35.5	529.77
36.0	525.96
36.5	522.20
37.0	518.29
37.5	514.32
38.0	510.41
38.5	506.34
39.0	502.36
39.5	498.26
40.0	494.16
40.5	490.01
41.0	485.90
41.5	481.66
42.0	477.37
42.5	473.14
43.0	468.79
43.5	464.50
44.0	460.06
44.5	455.70
45.0	451.20
45.5	446.85
46.0	442.29
46.5	437.73
47.0	433.26
47.5	428.61
48.0	423.99
48.5	419.31
49.0	414.68
49.5	410.00
50.0	405.39
50.5	400.58
51.0	395.83
51.5	391.08
52.0	386.27
52.5	381.46
53.0	376.55
53.5	371.73
54.0	366.75
54.5	361.98

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CANDELA TABULATION - (Cont.)

55.0	357.02
55.5	352.07
56.0	347.20
56.5	342.15
57.0	337.18
57.5	332.14
58.0	327.17
58.5	322.08
59.0	317.10
59.5	312.05
60.0	306.98
60.5	301.92
61.0	296.75
61.5	291.66
62.0	286.51
62.5	281.45
63.0	276.28
63.5	271.29
64.0	266.10
64.5	260.87
65.0	255.82
65.5	250.63
66.0	245.55
66.5	240.36
67.0	235.18
67.5	230.02
68.0	224.98
68.5	219.85
69.0	214.72
69.5	209.56
70.0	204.37
70.5	199.32
71.0	194.12
71.5	189.08
72.0	183.88
72.5	178.92
73.0	173.80
73.5	168.68
74.0	163.69
74.5	158.52
75.0	153.56
75.5	148.48
76.0	143.46
76.5	138.42
77.0	133.50
77.5	128.53
78.0	123.55
78.5	118.66
79.0	113.69
79.5	108.83
80.0	103.90
80.5	99.04
81.0	94.20
81.5	89.55
82.0	84.78
82.5	80.00

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CANDELA TABULATION - (Cont.)

83.0	75.36
83.5	70.63
84.0	66.13
84.5	61.59
85.0	57.26
85.5	52.99
86.0	48.98
86.5	44.73
87.0	40.63
87.5	37.09
88.0	34.46
88.5	32.95
89.0	32.56
89.5	32.56
90.0	32.64
90.5	32.82
91.0	33.10
91.5	34.50
92.0	38.04
92.5	42.30
93.0	46.37
93.5	50.10
94.0	53.68
94.5	57.28
95.0	60.98
95.5	64.93
96.0	68.98
96.5	73.20
97.0	77.67
97.5	82.07
98.0	86.69
98.5	91.22
99.0	95.96
99.5	100.59
100.0	105.41
100.5	110.15
101.0	114.99
101.5	119.99
102.0	124.88
102.5	130.01
103.0	136.18
103.5	145.92
104.0	159.11
104.5	176.44
105.0	195.38
105.5	214.08
106.0	234.25
106.5	257.96
107.0	284.87
107.5	314.46
108.0	349.02
108.5	386.61
109.0	425.75
109.5	462.44
110.0	496.64
110.5	521.79

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CANDELA TABULATION - (Cont.)

111.0	537.13
111.5	545.94
112.0	547.24
112.5	546.01
113.0	539.57
113.5	529.62
114.0	521.61
114.5	519.54
115.0	518.07
115.5	514.47
116.0	511.05
116.5	509.02
117.0	507.32
117.5	504.33
118.0	500.09
118.5	495.26
119.0	490.55
119.5	484.83
120.0	478.97
120.5	471.66
121.0	463.52
121.5	455.47
122.0	448.35
122.5	442.29
123.0	437.66
123.5	434.34
124.0	432.05
124.5	430.73
125.0	430.67
125.5	431.70
126.0	433.92
126.5	436.80
127.0	440.70
127.5	444.87
128.0	448.98
128.5	453.20
129.0	457.37
129.5	461.46
130.0	465.32
130.5	469.34
131.0	472.92
131.5	476.43
132.0	479.84
132.5	483.22
133.0	486.43
133.5	489.16
134.0	491.42
134.5	493.16
135.0	494.65
135.5	495.69
136.0	496.64
136.5	497.13
137.0	497.40
137.5	497.62
138.0	497.66
138.5	498.08

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CANDELA TABULATION - (Cont.)

139.0	498.16
139.5	498.48
140.0	498.83
140.5	498.95
141.0	499.15
141.5	499.55
142.0	499.95
142.5	500.80
143.0	501.55
143.5	502.13
144.0	502.32
144.5	502.62
145.0	503.07
145.5	503.16
146.0	503.39
146.5	503.07
147.0	502.55
147.5	501.71
148.0	500.69
148.5	499.86
149.0	498.88
149.5	497.79
150.0	496.39
150.5	494.88
151.0	493.39
151.5	491.77
152.0	490.03
152.5	488.27
153.0	486.01
153.5	483.91
154.0	481.75
154.5	479.39
155.0	476.87
155.5	474.54
156.0	472.45
156.5	470.53
157.0	468.80
157.5	467.24
158.0	466.11
158.5	465.15
159.0	464.13
159.5	463.38
160.0	462.95
160.5	462.52
161.0	462.19
161.5	461.71
162.0	461.28
162.5	460.52
163.0	459.49
163.5	457.90
164.0	455.80
164.5	452.78
165.0	449.37
165.5	446.42
166.0	443.30
166.5	439.68

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CANDELA TABULATION - (Cont.)

167.0	435.91
167.5	431.85
168.0	428.07
168.5	424.51
169.0	420.74
169.5	417.41
170.0	414.43
170.5	411.18
171.0	407.74
171.5	403.81
172.0	399.95
172.5	396.02
173.0	392.20
173.5	389.09
174.0	385.80
174.5	381.85
175.0	377.32
175.5	372.89
176.0	368.35
176.5	363.82
177.0	358.06
177.5	351.87
178.0	344.18
178.5	336.18
179.0	327.47
179.5	318.87
180.0	311.05

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	245.90	N.A.	5.70
0-30	522.29	N.A.	12.10
0-40	856.07	N.A.	19.90
0-60	1523.29	N.A.	35.30
0-80	1938.7	N.A.	45.00
0-90	2004.26	N.A.	46.50
10-90	1940.63	N.A.	45.00
20-40	610.17	N.A.	14.20
20-50	958.25	N.A.	22.20
40-70	920.40	N.A.	21.40
60-80	415.41	N.A.	9.60
70-80	162.23	N.A.	3.80
80-90	65.56	N.A.	1.50
90-110	312.60	N.A.	7.30
90-120	825.73	N.A.	19.20
90-130	1226.25	N.A.	28.50
90-150	1919.9	N.A.	44.50
90-180	2305.85	N.A.	53.50
110-180	1993.25	N.A.	46.20
0-180	4310.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.63
10-20	182.27
20-30	276.39
30-40	333.78
40-50	348.07
50-60	319.15
60-70	253.18
70-80	162.23
80-90	65.56
90-100	68.60
100-110	244.00
110-120	513.13
120-130	400.52
130-140	378.96
140-150	314.69
150-160	221.75
160-170	127.10
170-180	37.10

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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47	0
1	97	92	88	84	88	85	81	78	71	68	66	58	56	54	46	45	44	38	0
2	88	80	74	68	80	74	68	63	61	57	54	50	47	45	40	38	36	31	0
3	80	70	63	57	73	64	58	53	54	49	45	44	41	38	35	33	31	26	0
4	73	62	54	48	66	57	50	44	48	42	38	39	35	32	31	29	26	22	0
5	67	55	47	41	61	51	43	38	43	37	33	35	31	28	28	25	23	19	0
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	25	22	20	17	0
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15	0
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13	0
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12	0
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11	0

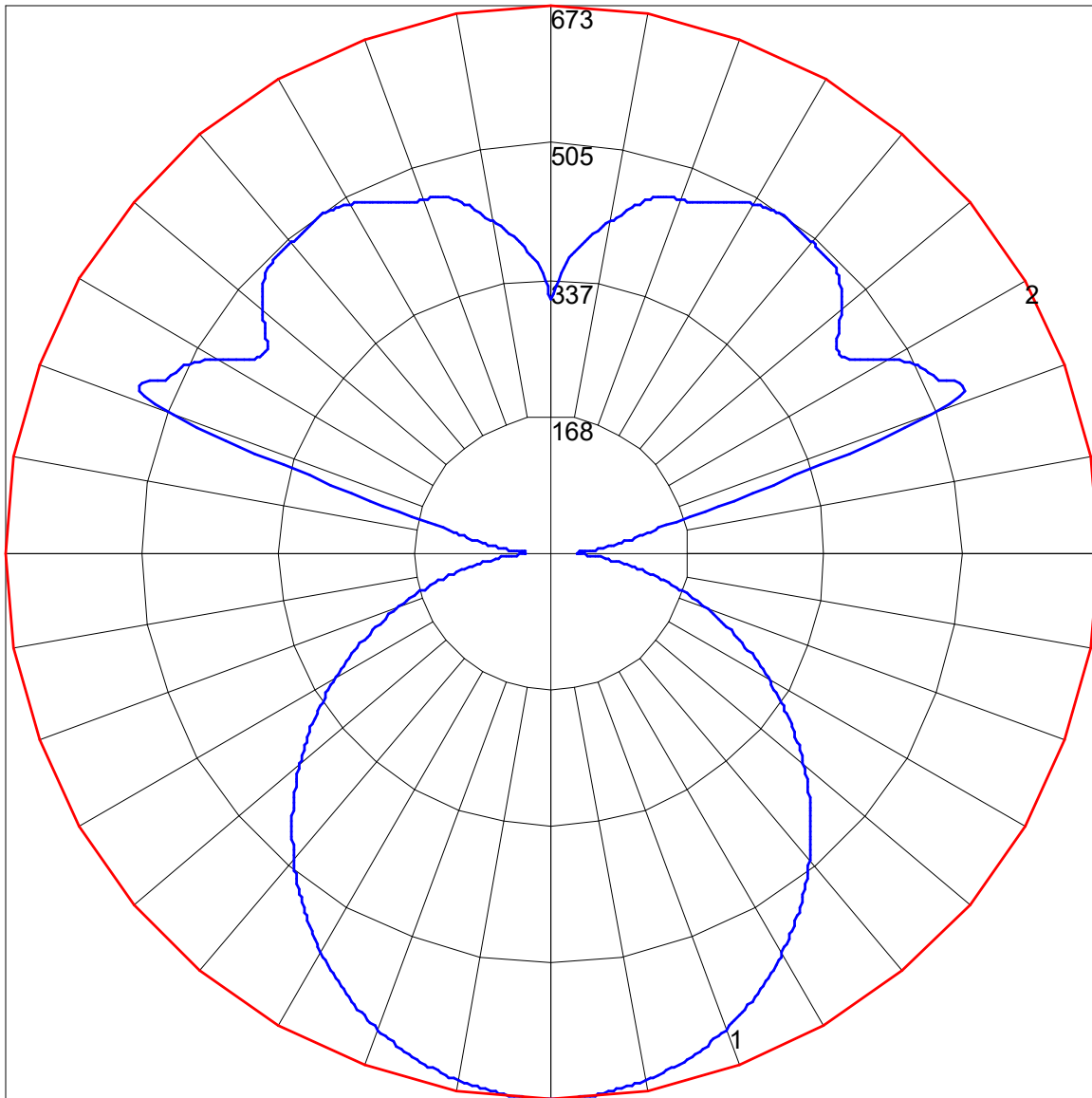
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	5.1	5.1	5.1	5.2	6.5	5.1	5.1	5.1	5.2	6.5
	3H	5.1	5.8	6.0	6.8	8.2	5.1	5.8	6.0	6.8	8.2
	4H	5.6	6.4	6.7	7.4	8.7	5.6	6.4	6.7	7.4	8.7
	6H	6.1	6.8	7.1	7.8	9.1	6.1	6.8	7.1	7.8	9.1
	8H	6.2	6.9	7.2	7.9	9.3	6.2	6.9	7.2	7.9	9.3
	12H	6.3	6.9	7.3	7.9	9.3	6.3	6.9	7.3	7.9	9.3
4H	2H	5.1	5.1	5.1	5.5	6.9	5.1	5.1	5.1	5.5	6.9
	3H	5.7	6.3	6.7	7.3	8.7	5.7	6.3	6.7	7.3	8.7
	4H	6.4	7.0	7.5	8.0	9.4	6.4	7.0	7.5	8.0	9.4
	6H	7.0	7.5	8.0	8.5	9.9	7.0	7.5	8.0	8.5	9.9
	8H	7.2	7.6	8.2	8.7	10.1	7.2	7.6	8.2	8.7	10.1
	12H	7.3	7.7	8.4	8.8	10.2	7.3	7.7	8.4	8.8	10.2
8H	4H	6.6	7.1	7.7	8.1	9.5	6.6	7.1	7.7	8.1	9.5
	6H	7.3	7.7	8.4	8.8	10.2	7.3	7.7	8.4	8.8	10.2
	8H	7.6	7.9	8.6	9.0	10.4	7.6	7.9	8.6	9.0	10.4
	12H	7.7	8.0	8.8	9.1	10.6	7.7	8.0	8.8	9.1	10.6
12H	4H	6.6	7.0	7.7	8.1	9.5	6.6	7.0	7.7	8.1	9.5
	6H	7.3	7.7	8.4	8.7	10.2	7.3	7.7	8.4	8.7	10.2
	8H	7.6	7.9	8.7	9.0	10.4	7.6	7.9	8.7	9.0	10.4

Maximum UGR = 10.6

POLAR GRAPH



Maximum Candela = 673.09 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)