



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_20_8-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & 12326812.05

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 15-MAR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 8CRDI-TL-L25-9DWU-L25-9DWD-xxx-DIM-UNV-OW-CSU-ON-CSD-WM

[LAMP] Two white LEDs (one up/one down)

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	75.4
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)	0.65 ft (Diameter)
Luminous Width (90-270)	0.65 ft (Diameter)
Luminous Height	2.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	140	140	140
55	39	39	39
65	9	9	9
75	0	0	0
85	0	0	0

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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	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142
5	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217
10	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582
15	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961
20	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699
25	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580
30	921.071	921.071	921.071	921.071	921.071	921.071	921.071	921.071	921.071	921.071
35	295.231	295.231	295.231	295.231	295.231	295.231	295.231	295.231	295.231	295.231
40	25.619	25.619	25.619	25.619	25.619	25.619	25.619	25.619	25.619	25.619
45	15.859	15.859	15.859	15.859	15.859	15.859	15.859	15.859	15.859	15.859
50	9.760	9.760	9.760	9.760	9.760	9.760	9.760	9.760	9.760	9.760
55	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880
60	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
65	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
70	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	4.420	4.420	4.420	4.420	4.420	4.420	4.420	4.420	4.420	4.420
95	5.017	5.017	5.017	5.017	5.017	5.017	5.017	5.017	5.017	5.017
100	6.069	6.069	6.069	6.069	6.069	6.069	6.069	6.069	6.069	6.069
105	7.508	7.508	7.508	7.508	7.508	7.508	7.508	7.508	7.508	7.508
110	9.472	9.472	9.472	9.472	9.472	9.472	9.472	9.472	9.472	9.472
115	12.420	12.420	12.420	12.420	12.420	12.420	12.420	12.420	12.420	12.420
120	17.191	17.191	17.191	17.191	17.191	17.191	17.191	17.191	17.191	17.191
125	26.032	26.032	26.032	26.032	26.032	26.032	26.032	26.032	26.032	26.032
130	41.364	41.364	41.364	41.364	41.364	41.364	41.364	41.364	41.364	41.364
135	65.886	65.886	65.886	65.886	65.886	65.886	65.886	65.886	65.886	65.886
140	262.457	262.457	262.457	262.457	262.457	262.457	262.457	262.457	262.457	262.457
145	932.864	932.864	932.864	932.864	932.864	932.864	932.864	932.864	932.864	932.864
150	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018
155	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997
160	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353
165	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559
170	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779
175	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868
180	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509

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	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142	26839.142
5	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217	11992.217
10	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582	4301.582
15	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961	2478.961
20	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699	1900.699
25	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580	1245.580
30	921.071	921.071	921.071	921.071	921.071	921.071	921.071
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45	15.859	15.859	15.859	15.859	15.859	15.859	15.859
50	9.760	9.760	9.760	9.760	9.760	9.760	9.760
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60	2.440	2.440	2.440	2.440	2.440	2.440	2.440

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65	1.220	1.220	1.220	1.220	1.220	1.220	1.220
70	1.220	1.220	1.220	1.220	1.220	1.220	1.220
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	4.420	4.420	4.420	4.420	4.420	4.420	4.420
95	5.017	5.017	5.017	5.017	5.017	5.017	5.017
100	6.069	6.069	6.069	6.069	6.069	6.069	6.069
105	7.508	7.508	7.508	7.508	7.508	7.508	7.508
110	9.472	9.472	9.472	9.472	9.472	9.472	9.472
115	12.420	12.420	12.420	12.420	12.420	12.420	12.420
120	17.191	17.191	17.191	17.191	17.191	17.191	17.191
125	26.032	26.032	26.032	26.032	26.032	26.032	26.032
130	41.364	41.364	41.364	41.364	41.364	41.364	41.364
135	65.886	65.886	65.886	65.886	65.886	65.886	65.886
140	262.457	262.457	262.457	262.457	262.457	262.457	262.457
145	932.864	932.864	932.864	932.864	932.864	932.864	932.864
150	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018	1651.018
155	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997	1957.997
160	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353	1918.353
165	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559	1815.559
170	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779	1739.779
175	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868	1587.868
180	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509	1472.509

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1810.26	N.A.	36.80
0-30	2414.44	N.A.	49.10
0-40	2647.08	N.A.	53.80
0-60	2664.81	N.A.	54.20
0-80	2666.64	N.A.	54.20
0-90	2667.85	N.A.	54.20
10-90	1620.75	N.A.	32.90
20-40	836.82	N.A.	17.00
20-50	849.68	N.A.	17.30
40-70	19.24	N.A.	0.40
60-80	1.83	N.A.	0.00
70-80	0.32	N.A.	0.00
80-90	1.21	N.A.	0.00
90-110	13.67	N.A.	0.30
90-120	26.41	N.A.	0.50
90-130	51.05	N.A.	1.00
90-150	713.45	N.A.	14.50
90-180	2250.98	N.A.	45.80
110-180	2237.31	N.A.	45.50
0-180	4918.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1047.1
10-20	763.16
20-30	604.18
30-40	232.64
40-50	12.86
50-60	4.88
60-70	1.51
70-80	0.32
80-90	1.21
90-100	5.60
100-110	8.07
110-120	12.74
120-130	24.65
130-140	82.47
140-150	579.93
150-160	863.28
160-170	518.63
170-180	155.63

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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	102	99	96	94	95	92	90	88	80	78	77	69	68	67	58	58	57	52
2	96	91	87	83	90	85	82	79	75	72	70	65	64	62	56	55	54	50
3	91	84	79	75	85	80	75	72	70	67	65	62	60	58	54	53	52	48
4	86	79	73	69	81	74	70	66	67	63	60	59	57	55	52	51	50	47
5	82	74	68	64	77	70	65	61	63	60	57	57	54	52	51	49	48	45
6	78	69	64	59	73	66	61	57	60	56	54	54	52	50	49	47	46	44
7	74	66	60	56	70	63	58	54	57	54	51	52	50	48	48	46	44	42
8	71	62	57	53	67	60	55	51	55	51	48	50	48	46	46	44	43	41
9	68	59	54	50	65	57	52	49	53	49	46	49	46	44	45	43	41	40
10	65	57	51	48	62	55	50	47	51	47	44	47	44	42	44	42	40	39

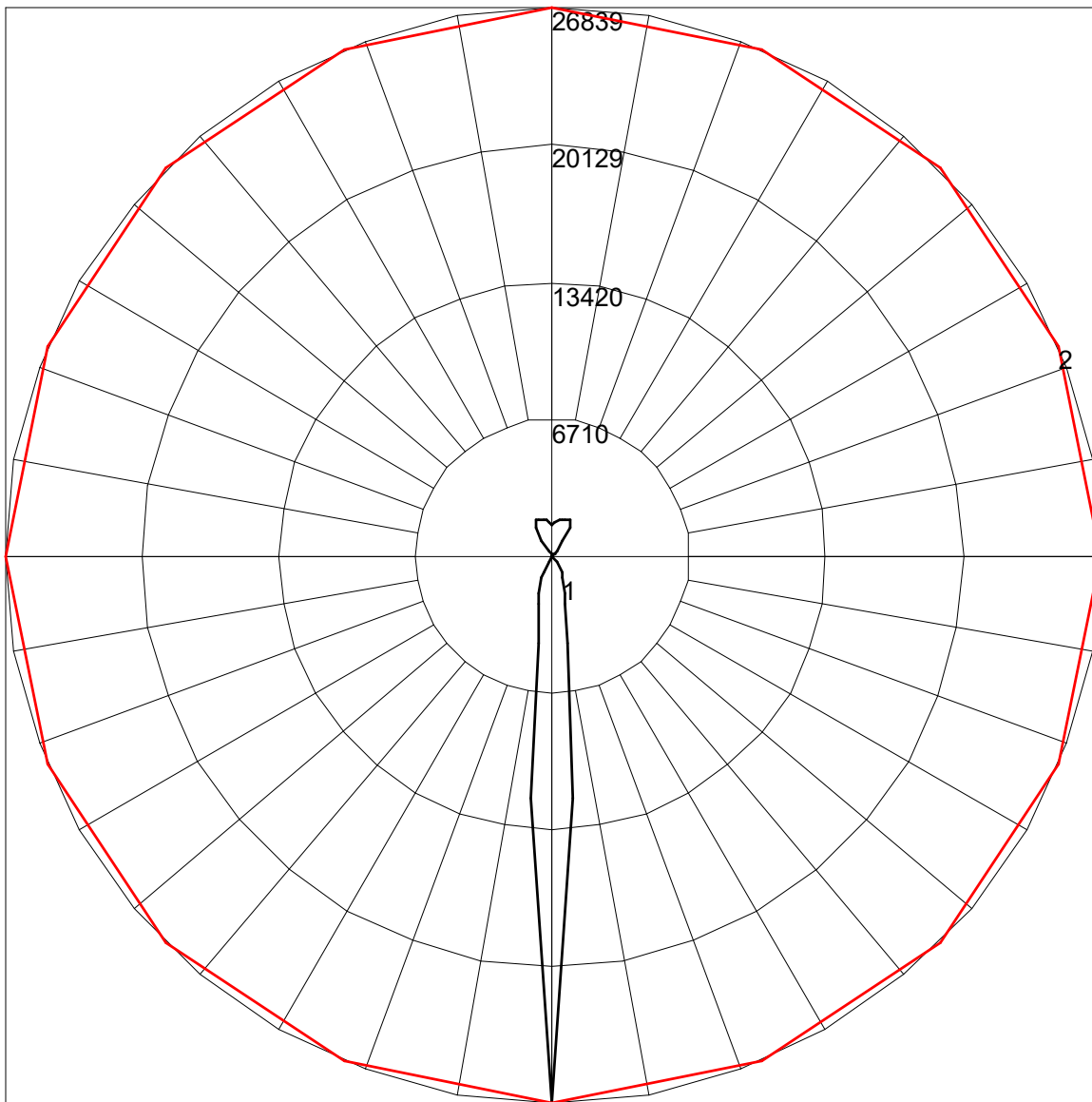
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UGR TABLE - CORRECTED

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	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
4H	2H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
8H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
12H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Maximum UGR = 5.5

POLAR GRAPH



Maximum Candela = 26839.142 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)