



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_39\_135-11\_22\_1-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & BALLABS #20687.0

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 15-MAR-2021

[MANUFAC] H E Williams Inc

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

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

[\_SEARCH\_] SOURCETYPE] LED

[\_SEARCH\_] APPLICATION] INDOOR, DIRECT, INDIRECT

[\_SEARCH\_] MOUNTING] WALL

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
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	477	477	477
55	123	123	123
65	18	18	18
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>
0	1971.141	1971.141	1971.141	1971.141	1971.141	1971.141	1971.141	1971.141	1971.141
5	1861.502	1861.502	1861.502	1861.502	1861.502	1861.502	1861.502	1861.502	1861.502
10	2048.949	2048.949	2048.949	2048.949	2048.949	2048.949	2048.949	2048.949	2048.949
15	2045.412	2045.412	2045.412	2045.412	2045.412	2045.412	2045.412	2045.412	2045.412
20	2136.189	2136.189	2136.189	2136.189	2136.189	2136.189	2136.189	2136.189	2136.189
25	2336.604	2336.604	2336.604	2336.604	2336.604	2336.604	2336.604	2336.604	2336.604
30	2295.342	2295.342	2295.342	2295.342	2295.342	2295.342	2295.342	2295.342	2295.342
35	712.063	712.063	712.063	712.063	712.063	712.063	712.063	712.063	712.063
40	97.850	97.850	97.850	97.850	97.850	97.850	97.850	97.850	97.850
45	54.230	54.230	54.230	54.230	54.230	54.230	54.230	54.230	54.230
50	31.831	31.831	31.831	31.831	31.831	31.831	31.831	31.831	31.831
55	15.326	15.326	15.326	15.326	15.326	15.326	15.326	15.326	15.326
60	8.252	8.252	8.252	8.252	8.252	8.252	8.252	8.252	8.252
65	2.358	2.358	2.358	2.358	2.358	2.358	2.358	2.358	2.358
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	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
85	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
95	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
105	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
115	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
125	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
135	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
145	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
155	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
165	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
175	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	773.20	N.A.	16.40
0-30	1828.49	N.A.	38.70
0-40	2406.48	N.A.	51.00
0-60	2467.74	N.A.	52.20
0-80	2470.91	N.A.	52.30
0-90	2472.12	N.A.	52.30
10-90	2286.42	N.A.	48.40
20-40	1633.28	N.A.	34.60
20-50	1678.83	N.A.	35.50
40-70	64.43	N.A.	1.40
60-80	3.18	N.A.	0.10
70-80	0.00	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.	0.60
90-130	51.05	N.A.	1.10
90-150	713.45	N.A.	15.10
90-180	2250.98	N.A.	47.70
110-180	2237.31	N.A.	47.40
0-180	4723.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	185.71
10-20	587.50
20-30	1055.29
30-40	577.99
40-50	45.55
50-60	15.70
60-70	3.18
70-80	0.00
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	579.92
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	85	85	85	71	71	71	58	58	58	52
1	101	97	94	92	93	91	88	86	78	76	74	66	65	64	55	55	54	49
2	94	88	84	80	87	82	78	75	72	69	66	61	59	58	52	51	50	46
3	88	80	75	70	82	75	70	66	66	62	59	57	55	53	49	47	46	42
4	82	73	67	62	76	69	64	59	61	57	54	53	50	48	46	44	43	39
5	77	67	61	56	72	64	58	53	56	52	49	50	46	44	43	41	39	37
6	72	62	55	51	67	59	53	48	52	48	44	46	43	40	41	38	37	34
7	67	57	51	46	63	54	48	44	49	44	41	43	40	37	38	36	34	32
8	63	53	46	42	59	50	45	40	45	41	38	41	37	35	36	34	32	30
9	60	49	43	39	56	47	41	37	42	38	35	38	35	32	34	31	30	28
10	56	46	40	35	53	44	38	34	40	35	32	36	32	30	32	30	28	26

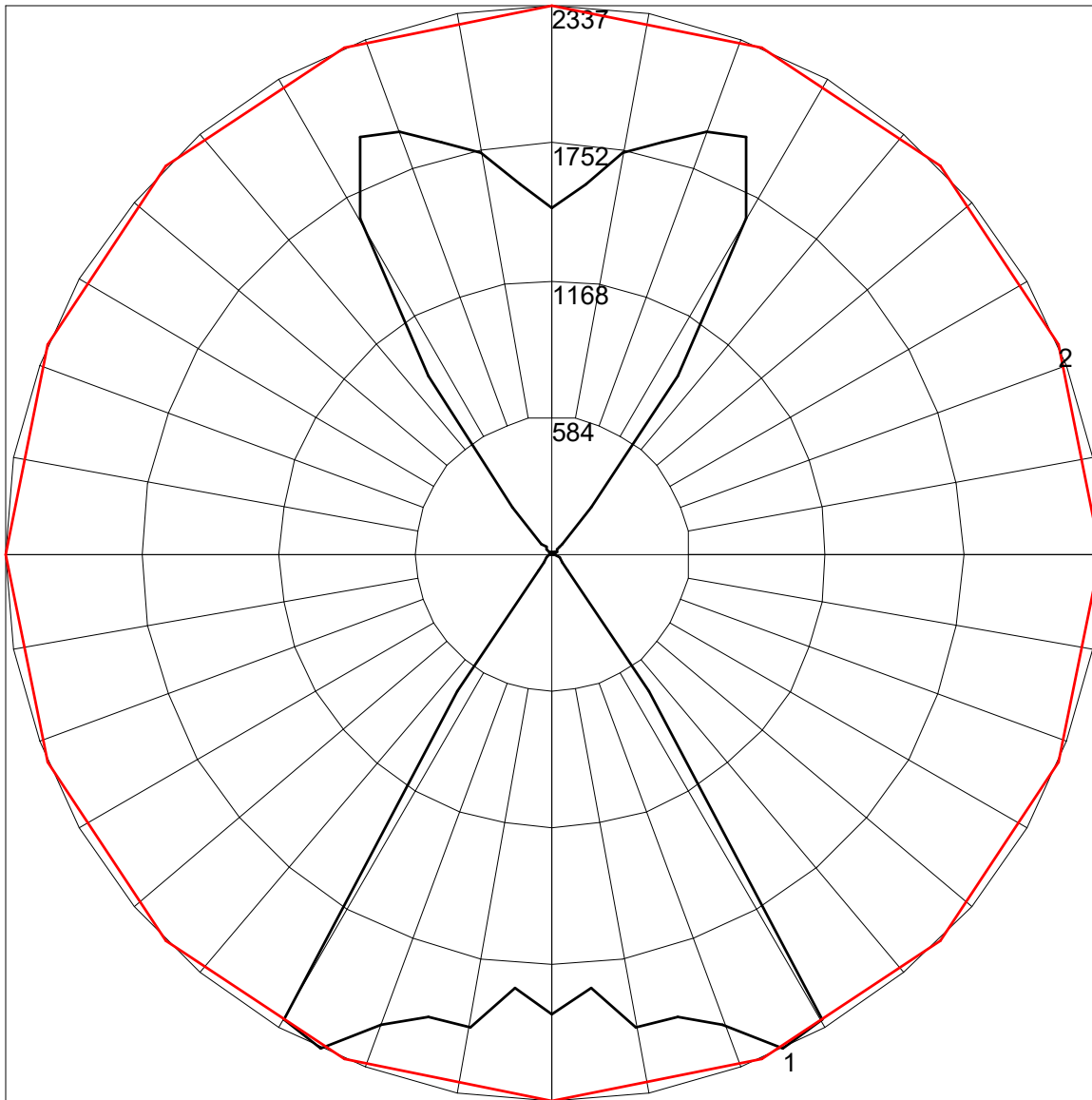
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**UGR TABLE - CORRECTED**

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	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	3H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
4H	2H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	3H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
8H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
12H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

Maximum UGR = 5.4

POLAR GRAPH



Maximum Candela = 2336.604 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)