



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_39\_135-11\_28\_30-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.12

[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-RW-WHD-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	4316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
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	2893	2893	2893
55	1791	1791	1791
65	883	883	883
75	324	324	324
85	87	87	87

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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	1519.533	1519.533	1519.533	1519.533	1519.533	1519.533	1519.533	1519.533	1519.533
5	1482.575	1482.575	1482.575	1482.575	1482.575	1482.575	1482.575	1482.575	1482.575
10	1422.874	1422.874	1422.874	1422.874	1422.874	1422.874	1422.874	1422.874	1422.874
15	1354.645	1354.645	1354.645	1354.645	1354.645	1354.645	1354.645	1354.645	1354.645
20	1296.081	1296.081	1296.081	1296.081	1296.081	1296.081	1296.081	1296.081	1296.081
25	1188.903	1188.903	1188.903	1188.903	1188.903	1188.903	1188.903	1188.903	1188.903
30	930.767	930.767	930.767	930.767	930.767	930.767	930.767	930.767	930.767
35	560.337	560.337	560.337	560.337	560.337	560.337	560.337	560.337	560.337
40	390.757	390.757	390.757	390.757	390.757	390.757	390.757	390.757	390.757
45	328.640	328.640	328.640	328.640	328.640	328.640	328.640	328.640	328.640
50	278.747	278.747	278.747	278.747	278.747	278.747	278.747	278.747	278.747
55	222.315	222.315	222.315	222.315	222.315	222.315	222.315	222.315	222.315
60	165.457	165.457	165.457	165.457	165.457	165.457	165.457	165.457	165.457
65	115.564	115.564	115.564	115.564	115.564	115.564	115.564	115.564	115.564
70	73.773	73.773	73.773	73.773	73.773	73.773	73.773	73.773	73.773
75	43.354	43.354	43.354	43.354	43.354	43.354	43.354	43.354	43.354
80	25.728	25.728	25.728	25.728	25.728	25.728	25.728	25.728	25.728
85	11.514	11.514	11.514	11.514	11.514	11.514	11.514	11.514	11.514
90	5.841	5.841	5.841	5.841	5.841	5.841	5.841	5.841	5.841
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	523.04	N.A.	12.10
0-30	1051.92	N.A.	24.40
0-40	1430.18	N.A.	33.10
0-60	1884.69	N.A.	43.70
0-80	2050.05	N.A.	47.50
0-90	2064.92	N.A.	47.80
10-90	1925.09	N.A.	44.60
20-40	907.13	N.A.	21.00
20-50	1163.07	N.A.	26.90
40-70	570.77	N.A.	13.20
60-80	165.36	N.A.	3.80
70-80	49.10	N.A.	1.10
80-90	14.87	N.A.	0.30
90-110	14.06	N.A.	0.30
90-120	26.80	N.A.	0.60
90-130	51.44	N.A.	1.20
90-150	713.83	N.A.	16.50
90-180	2251.37	N.A.	52.20
110-180	2237.31	N.A.	51.80
0-180	4316.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.83
10-20	383.22
20-30	528.88
30-40	378.26
40-50	255.93
50-60	198.58
60-70	116.26
70-80	49.10
80-90	14.87
90-100	5.99
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	95	91	88	91	87	84	82	74	72	70	61	60	59	50	49	48	43
2	91	84	79	74	84	78	73	69	66	63	60	55	53	51	45	44	43	38
3	84	75	69	64	77	70	64	60	60	56	52	50	47	45	42	40	38	34
4	77	68	61	55	71	63	57	52	54	49	46	46	42	40	38	36	34	30
5	72	61	54	48	66	57	51	46	49	44	41	42	38	36	35	33	31	28
6	67	56	48	43	61	52	45	41	45	40	36	39	35	32	33	30	28	25
7	62	51	43	38	57	48	41	36	41	36	33	36	32	29	30	28	25	23
8	58	47	39	35	54	44	37	33	38	33	30	33	29	27	28	25	23	21
9	54	43	36	31	50	40	34	30	35	31	27	31	27	24	26	24	22	20
10	51	40	33	29	47	37	31	27	33	28	25	29	25	22	25	22	20	18

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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

X=2H	Y=2H	7.0	7.7	8.0	8.7	10.0	UGR Viewed Endwise	7.0	7.7	8.0	8.7	10.0
	3H	7.6	8.3	8.6	9.3	10.6		7.6	8.3	8.6	9.3	10.6
	4H	7.7	8.3	8.7	9.3	10.7		7.7	8.3	8.7	9.3	10.7
	6H	7.7	8.3	8.8	9.3	10.7		7.7	8.3	8.8	9.3	10.7
	8H	7.7	8.2	8.7	9.3	10.6		7.7	8.2	8.7	9.3	10.6
	12H	7.7	8.2	8.7	9.2	10.6		7.7	8.2	8.7	9.2	10.6

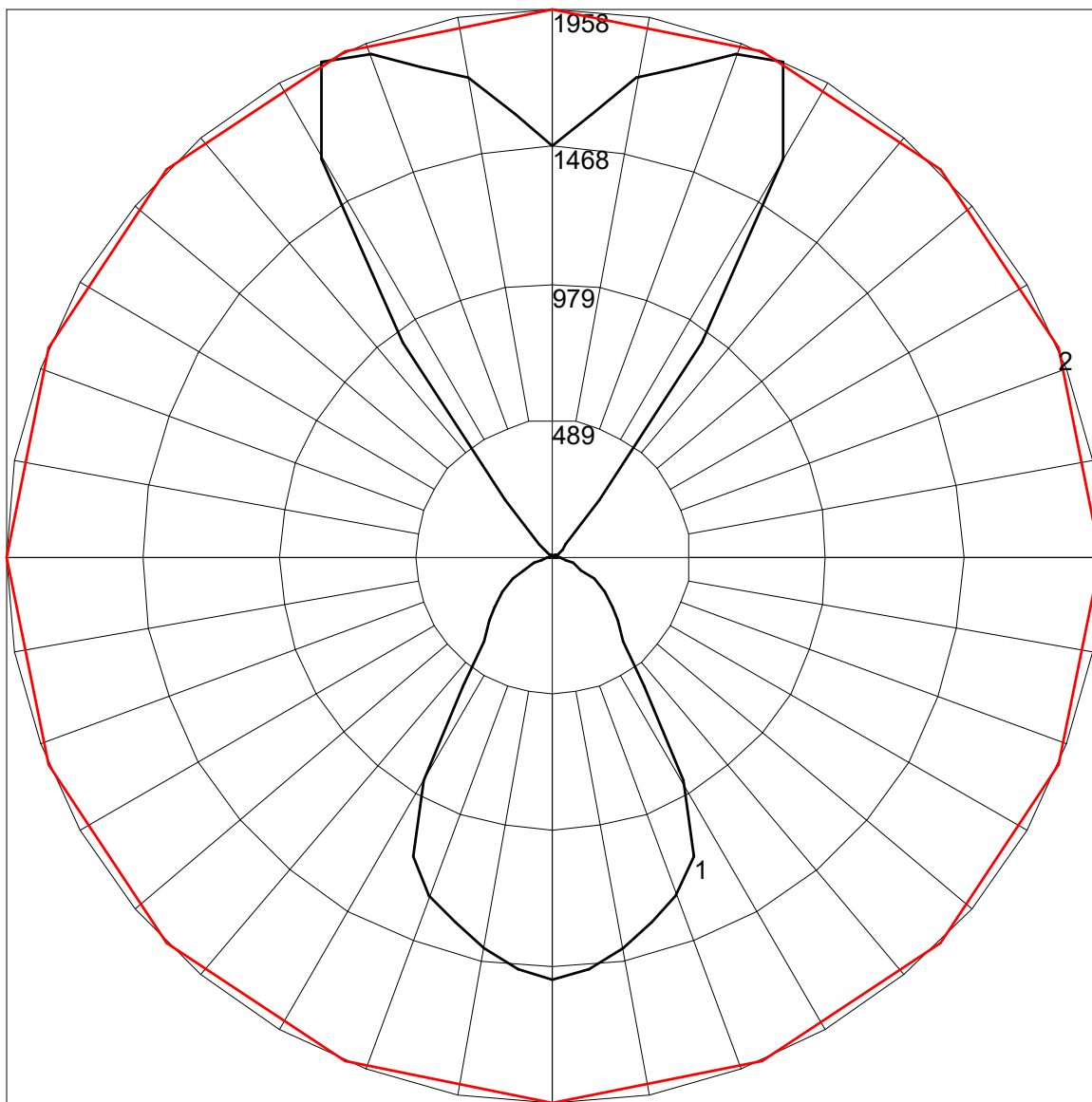
4H	2H	7.1	7.7	8.1	8.7	10.1	7.1	7.7	8.1	8.7	10.1
	3H	7.8	8.3	8.8	9.4	10.7	7.8	8.3	8.8	9.4	10.7
	4H	8.0	8.4	9.0	9.5	10.8	8.0	8.4	9.0	9.5	10.8
	6H	8.0	8.4	9.1	9.5	10.9	8.0	8.4	9.1	9.5	10.9
	8H	8.0	8.4	9.1	9.4	10.8	8.0	8.4	9.1	9.4	10.8
	12H	8.0	8.3	9.0	9.4	10.8	8.0	8.3	9.0	9.4	10.8

8H	4H	7.9	8.3	9.0	9.3	10.7	7.9	8.3	9.0	9.3	10.7
	6H	8.0	8.3	9.1	9.4	10.8	8.0	8.3	9.1	9.4	10.8
	8H	8.0	8.3	9.1	9.4	10.8	8.0	8.3	9.1	9.4	10.8
	12H	8.0	8.2	9.1	9.3	10.8	8.0	8.2	9.1	9.3	10.8

12H	4H	7.9	8.2	8.9	9.3	10.6	7.9	8.2	8.9	9.3	10.6
	6H	8.0	8.2	9.0	9.3	10.7	8.0	8.2	9.0	9.3	10.7
	8H	8.0	8.2	9.1	9.3	10.7	8.0	8.2	9.1	9.3	10.7

Maximum UGR = 10.9

POLAR GRAPH



Maximum Candela = 1957.997 Located At Horizontal Angle = 0, Vertical Angle = 155  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (155) (Through Max. Cd.)