



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_26_9-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.03 & #12326812.15
 [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-RN-WHD-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	4558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	766	766	766
55	372	372	372
65	177	177	177
75	69	69	69
85	19	19	19

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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	8329.553	8329.553	8329.553	8329.553	8329.553	8329.553	8329.553	8329.553	8329.553
5	7550.940	7550.940	7550.940	7550.940	7550.940	7550.940	7550.940	7550.940	7550.940
10	5581.506	5581.506	5581.506	5581.506	5581.506	5581.506	5581.506	5581.506	5581.506
15	3295.181	3295.181	3295.181	3295.181	3295.181	3295.181	3295.181	3295.181	3295.181
20	1681.013	1681.013	1681.013	1681.013	1681.013	1681.013	1681.013	1681.013	1681.013
25	809.312	809.312	809.312	809.312	809.312	809.312	809.312	809.312	809.312
30	395.248	395.248	395.248	395.248	395.248	395.248	395.248	395.248	395.248
35	213.159	213.159	213.159	213.159	213.159	213.159	213.159	213.159	213.159
40	128.861	128.861	128.861	128.861	128.861	128.861	128.861	128.861	128.861
45	87.021	87.021	87.021	87.021	87.021	87.021	87.021	87.021	87.021
50	62.388	62.388	62.388	62.388	62.388	62.388	62.388	62.388	62.388
55	46.172	46.172	46.172	46.172	46.172	46.172	46.172	46.172	46.172
60	33.917	33.917	33.917	33.917	33.917	33.917	33.917	33.917	33.917
65	23.148	23.148	23.148	23.148	23.148	23.148	23.148	23.148	23.148
70	14.854	14.854	14.854	14.854	14.854	14.854	14.854	14.854	14.854
75	9.160	9.160	9.160	9.160	9.160	9.160	9.160	9.160	9.160
80	5.570	5.570	5.570	5.570	5.570	5.570	5.570	5.570	5.570
85	2.476	2.476	2.476	2.476	2.476	2.476	2.476	2.476	2.476
90	4.791	4.791	4.791	4.791	4.791	4.791	4.791	4.791	4.791
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	1596.3	N.A.	35.00
0-30	2009.93	N.A.	44.10
0-40	2156.59	N.A.	47.30
0-60	2268.87	N.A.	49.80
0-80	2302.58	N.A.	50.50
0-90	2306.75	N.A.	50.60
10-90	1647.12	N.A.	36.10
20-40	560.28	N.A.	12.30
20-50	630.45	N.A.	13.80
40-70	135.77	N.A.	3.00
60-80	33.71	N.A.	0.70
70-80	10.22	N.A.	0.20
80-90	4.18	N.A.	0.10
90-110	13.77	N.A.	0.30
90-120	26.51	N.A.	0.60
90-130	51.16	N.A.	1.10
90-150	713.55	N.A.	15.70
90-180	2251.08	N.A.	49.40
110-180	2237.31	N.A.	49.10
0-180	4557.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	659.64
10-20	936.67
20-30	413.63
30-40	146.66
40-50	70.16
50-60	42.12
60-70	23.49
70-80	10.22
80-90	4.18
90-100	5.70
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	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48
2	94	89	85	81	88	83	79	76	72	69	67	62	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	62	63	59	57	55	53	51	48	46	45	42
5	79	71	64	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	56	70	63	57	53	56	52	49	50	47	45	44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	46	48	45	43	43	41	39	37
8	68	58	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36
9	65	55	50	46	61	53	48	44	48	44	42	44	41	39	40	38	36	35
10	62	53	47	43	59	50	45	42	46	42	40	42	40	38	39	37	35	34

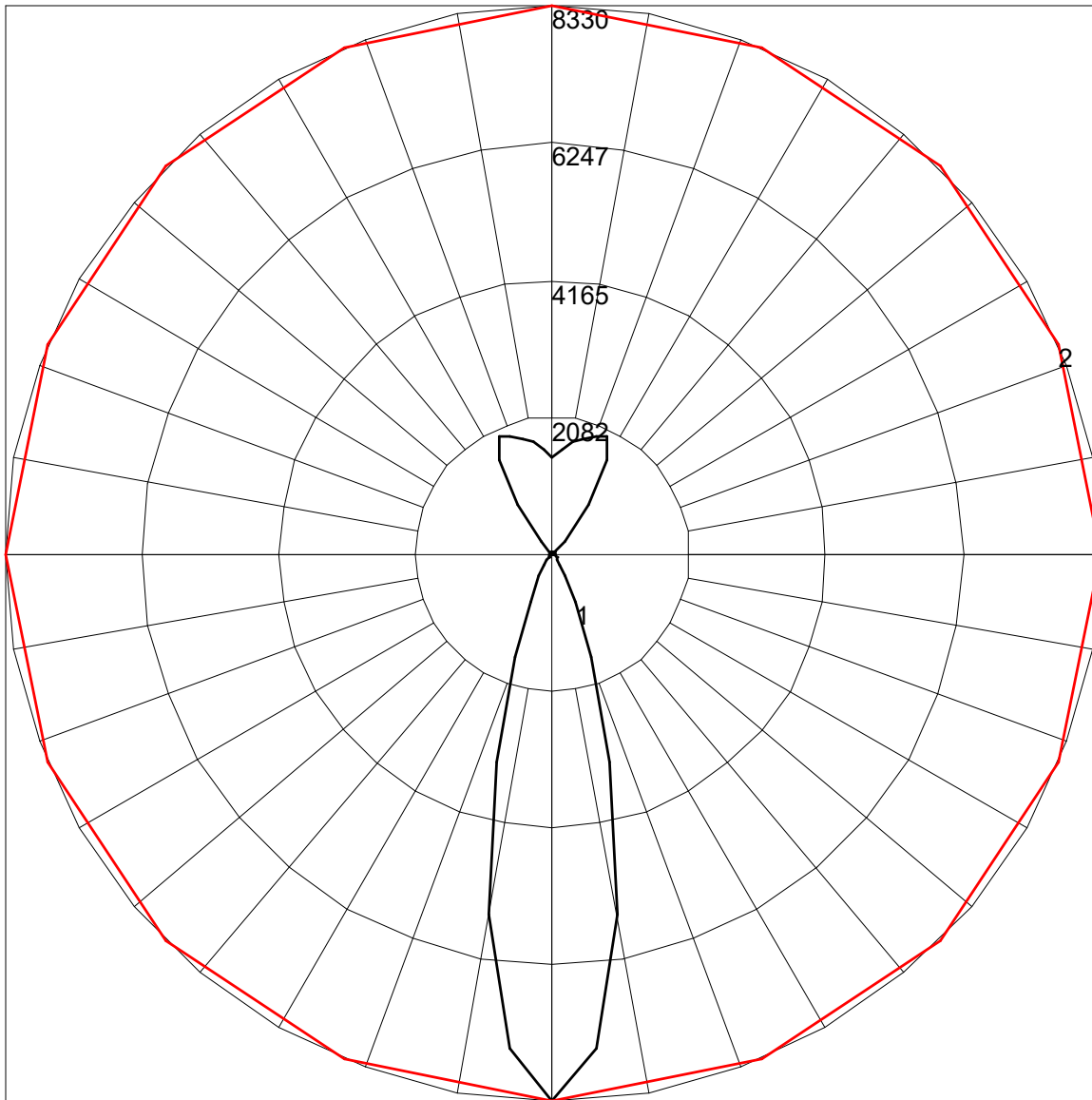
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UGR TABLE - CORRECTED

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	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	3H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
4H	2H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	3H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
8H	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
12H	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3

Maximum UGR = 5.3

POLAR GRAPH



Maximum Candela = 8329.553 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.)