



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.04

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 15-MAR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 8CRDI-TL-L25-9DWU-L25-9DWU-xxx-DIM-UNV-OW-CSU-OM-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	4753
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	504	504	504
55	138	138	138
65	38	38	38
75	10	10	10
85	3	3	3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES

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	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875
5	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089
10	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408
15	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961
20	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381
25	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035
30	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409
35	489.903	489.903	489.903	489.903	489.903	489.903	489.903	489.903	489.903	489.903
40	143.441	143.441	143.441	143.441	143.441	143.441	143.441	143.441	143.441	143.441
45	57.228	57.228	57.228	57.228	57.228	57.228	57.228	57.228	57.228	57.228
50	33.197	33.197	33.197	33.197	33.197	33.197	33.197	33.197	33.197	33.197
55	17.094	17.094	17.094	17.094	17.094	17.094	17.094	17.094	17.094	17.094
60	9.042	9.042	9.042	9.042	9.042	9.042	9.042	9.042	9.042	9.042
65	4.955	4.955	4.955	4.955	4.955	4.955	4.955	4.955	4.955	4.955
70	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725
75	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363
80	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743
85	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
90	4.544	4.544	4.544	4.544	4.544	4.544	4.544	4.544	4.544	4.544
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. 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	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875	4970.875
5	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089	4920.089
10	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408	3707.408
15	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961	2879.961
20	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381	2368.381
25	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035	1749.035
30	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409	1242.409
35	489.903	489.903	489.903	489.903	489.903	489.903	489.903
40	143.441	143.441	143.441	143.441	143.441	143.441	143.441
45	57.228	57.228	57.228	57.228	57.228	57.228	57.228
50	33.197	33.197	33.197	33.197	33.197	33.197	33.197
55	17.094	17.094	17.094	17.094	17.094	17.094	17.094
60	9.042	9.042	9.042	9.042	9.042	9.042	9.042

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES****CANDELA TABULATION - (Cont.)**

65	4.955	4.955	4.955	4.955	4.955	4.955	4.955
70	2.725	2.725	2.725	2.725	2.725	2.725	2.725
75	1.363	1.363	1.363	1.363	1.363	1.363	1.363
80	0.743	0.743	0.743	0.743	0.743	0.743	0.743
85	0.372	0.372	0.372	0.372	0.372	0.372	0.372
90	4.544	4.544	4.544	4.544	4.544	4.544	4.544
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1250.17	N.A.	26.30
0-30	2060.58	N.A.	43.30
0-40	2421.35	N.A.	50.90
0-60	2493.75	N.A.	52.50
0-80	2500.73	N.A.	52.60
0-90	2502.38	N.A.	52.60
10-90	2075.5	N.A.	43.70
20-40	1171.17	N.A.	24.60
20-50	1226.6	N.A.	25.80
40-70	77.75	N.A.	1.60
60-80	6.98	N.A.	0.10
70-80	1.63	N.A.	0.00
80-90	1.65	N.A.	0.00
90-110	13.70	N.A.	0.30
90-120	26.44	N.A.	0.60
90-130	51.09	N.A.	1.10
90-150	713.48	N.A.	15.00
90-180	2251.01	N.A.	47.40
110-180	2237.31	N.A.	47.10
0-180	4753.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	426.88
10-20	823.30
20-30	810.41
30-40	360.76
40-50	55.43
50-60	16.98
60-70	5.35
70-80	1.63
80-90	1.65
90-100	5.63
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	59	59	59	53
1	101	98	95	92	94	91	89	86	78	77	75	67	66	65	56	55	55	50
2	95	89	85	81	88	83	80	76	73	70	68	63	61	59	53	52	51	47
3	89	82	76	72	83	77	72	68	67	64	61	59	56	54	51	49	48	44
4	84	75	69	65	78	71	66	62	63	59	56	55	53	50	48	46	45	42
5	79	70	63	59	74	66	60	56	59	55	52	52	49	47	46	44	42	40
6	74	65	58	54	69	61	56	52	55	51	48	49	46	44	44	42	40	37
7	70	60	54	50	66	57	52	48	52	48	44	47	43	41	42	39	38	36
8	66	56	50	46	62	54	48	45	49	45	42	44	41	39	40	37	36	34
9	63	53	47	43	59	51	45	42	46	42	39	42	39	36	38	36	34	32
10	60	50	44	40	56	48	43	39	44	40	37	40	37	35	36	34	32	31

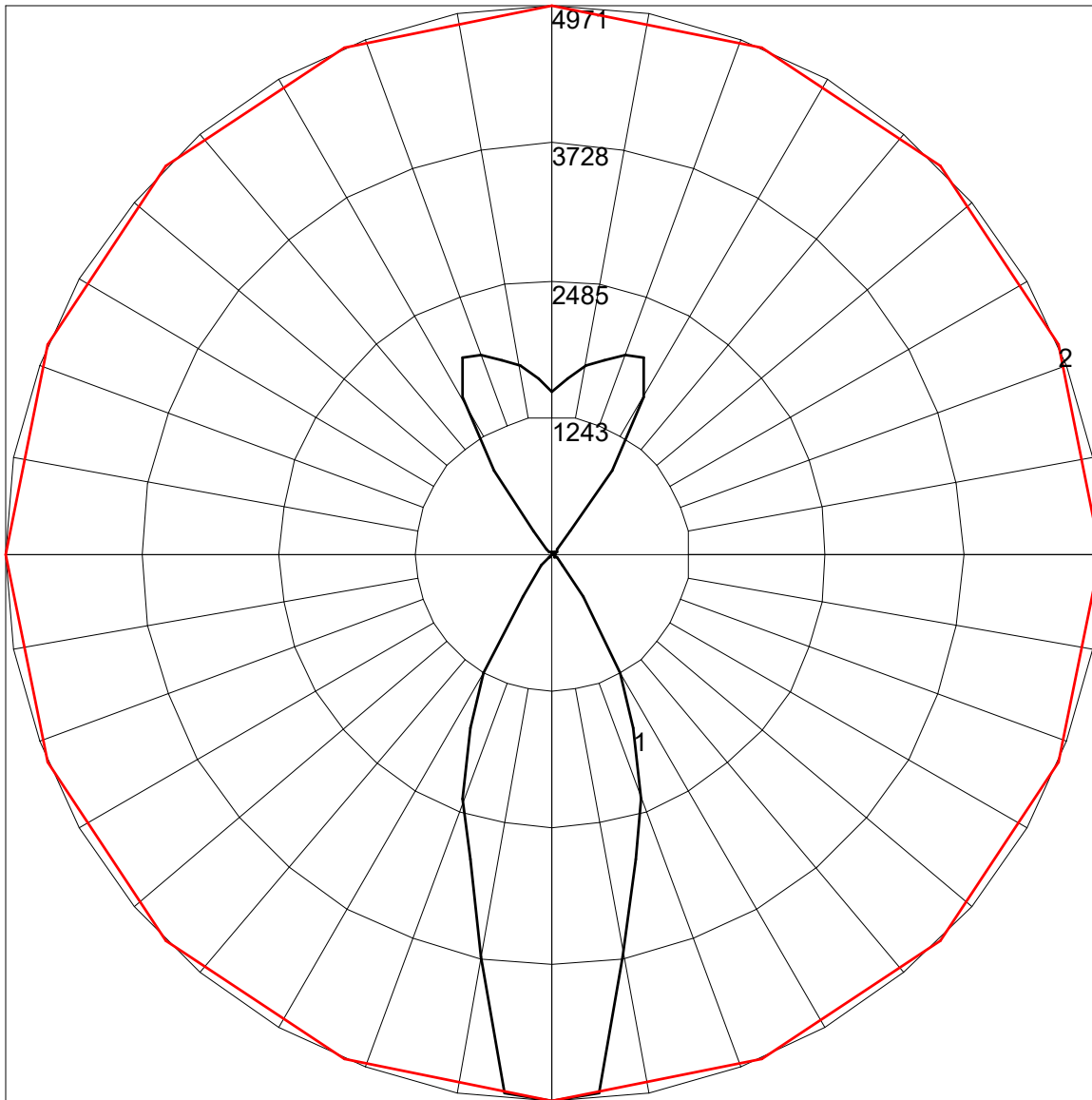
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_39_135-11_14_18-MERGED.IES

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 = 4970.875 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.)