



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_11_35-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.03 & #12326812.07
 [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-LW-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	4383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	3364	3364	3364
55	2080	2080	2080
65	1104	1104	1104
75	480	480	480
85	106	106	106

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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	1350.049	1350.049	1350.049	1350.049	1350.049	1350.049	1350.049	1350.049	1350.049
5	1328.710	1328.710	1328.710	1328.710	1328.710	1328.710	1328.710	1328.710	1328.710
10	1311.856	1311.856	1311.856	1311.856	1311.856	1311.856	1311.856	1311.856	1311.856
15	1297.042	1297.042	1297.042	1297.042	1297.042	1297.042	1297.042	1297.042	1297.042
20	1254.092	1254.092	1254.092	1254.092	1254.092	1254.092	1254.092	1254.092	1254.092
25	1118.449	1118.449	1118.449	1118.449	1118.449	1118.449	1118.449	1118.449	1118.449
30	856.268	856.268	856.268	856.268	856.268	856.268	856.268	856.268	856.268
35	571.389	571.389	571.389	571.389	571.389	571.389	571.389	571.389	571.389
40	448.113	448.113	448.113	448.113	448.113	448.113	448.113	448.113	448.113
45	382.194	382.194	382.194	382.194	382.194	382.194	382.194	382.194	382.194
50	321.440	321.440	321.440	321.440	321.440	321.440	321.440	321.440	321.440
55	258.104	258.104	258.104	258.104	258.104	258.104	258.104	258.104	258.104
60	197.077	197.077	197.077	197.077	197.077	197.077	197.077	197.077	197.077
65	144.478	144.478	144.478	144.478	144.478	144.478	144.478	144.478	144.478
70	99.599	99.599	99.599	99.599	99.599	99.599	99.599	99.599	99.599
75	64.166	64.166	64.166	64.166	64.166	64.166	64.166	64.166	64.166
80	36.670	36.670	36.670	36.670	36.670	36.670	36.670	36.670	36.670
85	14.081	14.081	14.081	14.081	14.081	14.081	14.081	14.081	14.081
90	5.181	5.181	5.181	5.181	5.181	5.181	5.181	5.181	5.181
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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Zone	Lumens	%Lamp	%Fixt
0-20	491.49	N.A.	11.20
0-30	990.23	N.A.	22.60
0-40	1370.56	N.A.	31.30
0-60	1897.7	N.A.	43.30
0-80	2112.32	N.A.	48.20
0-90	2131.39	N.A.	48.60
10-90	2004.9	N.A.	45.70
20-40	879.07	N.A.	20.10
20-50	1174.98	N.A.	26.80
40-70	671.98	N.A.	15.30
60-80	214.62	N.A.	4.90
70-80	69.79	N.A.	1.60
80-90	19.06	N.A.	0.40
90-110	13.88	N.A.	0.30
90-120	26.62	N.A.	0.60
90-130	51.26	N.A.	1.20
90-150	713.65	N.A.	16.30
90-180	2251.19	N.A.	51.40
110-180	2237.31	N.A.	51.10
0-180	4382.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.49
10-20	365.01
20-30	498.74
30-40	380.33
40-50	295.92
50-60	231.23
60-70	144.83
70-80	69.79
80-90	19.06
90-100	5.80
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	83	83	83	68	68	68	55	55	55	49
1	98	94	91	88	91	87	84	82	74	72	70	61	60	59	50	49	48	43
2	91	84	78	73	83	78	73	69	66	62	59	55	53	51	45	44	42	38
3	83	75	68	63	77	69	63	59	59	55	51	50	47	44	41	39	37	33
4	77	67	60	54	71	62	56	51	53	49	45	45	42	39	38	35	33	30
5	71	60	53	47	65	56	50	45	48	43	40	41	38	35	35	32	30	27
6	66	55	47	42	61	51	44	40	44	39	35	38	34	31	32	29	27	24
7	61	50	42	37	57	47	40	35	41	35	32	35	31	28	30	27	24	22
8	57	46	38	33	53	43	36	32	37	32	29	32	28	25	27	25	22	20
9	53	42	35	30	50	39	33	29	35	30	26	30	26	23	26	23	21	19
10	50	39	32	27	47	36	30	26	32	27	24	28	24	21	24	21	19	17

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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

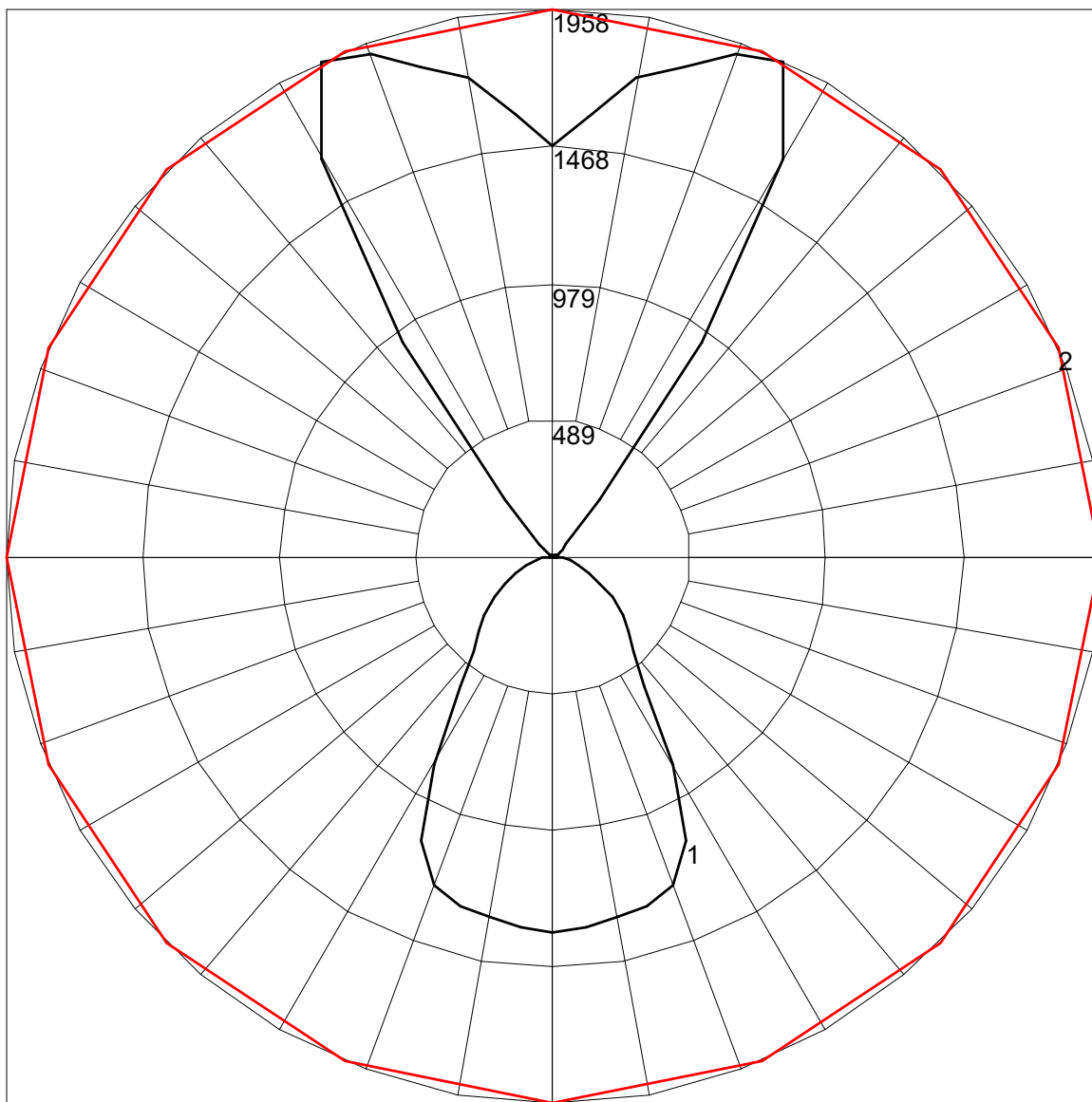
X=2H	Y=2H	8.0	8.8	9.0	9.7	11.0	8.0	8.8	9.0	9.7	11.0
	3H	8.8	9.5	9.8	10.5	11.8	8.8	9.5	9.8	10.5	11.8
	4H	9.0	9.6	10.0	10.6	12.0	9.0	9.6	10.0	10.6	12.0
	6H	9.0	9.7	10.1	10.7	12.0	9.0	9.7	10.1	10.7	12.0
	8H	9.0	9.6	10.0	10.6	12.0	9.0	9.6	10.0	10.6	12.0
	12H	9.0	9.5	10.0	10.6	11.9	9.0	9.5	10.0	10.6	11.9

UGR Viewed Endwise

4H	2H	8.2	8.8	9.2	9.8	11.1	8.2	8.8	9.2	9.8	11.1
	3H	9.1	9.6	10.1	10.7	12.0	9.1	9.6	10.1	10.7	12.0
	4H	9.3	9.8	10.4	10.9	12.2	9.3	9.8	10.4	10.9	12.2
	6H	9.5	9.9	10.5	10.9	12.3	9.5	9.9	10.5	10.9	12.3
	8H	9.5	9.9	10.5	10.9	12.3	9.5	9.9	10.5	10.9	12.3
	12H	9.4	9.8	10.5	10.8	12.2	9.4	9.8	10.5	10.8	12.2
8H	4H	9.3	9.7	10.4	10.8	12.1	9.3	9.7	10.4	10.8	12.1
	6H	9.5	9.8	10.6	10.9	12.3	9.5	9.8	10.6	10.9	12.3
	8H	9.5	9.8	10.6	10.9	12.3	9.5	9.8	10.6	10.9	12.3
	12H	9.5	9.8	10.6	10.8	12.2	9.5	9.8	10.6	10.8	12.2
12H	4H	9.3	9.6	10.3	10.7	12.1	9.3	9.6	10.3	10.7	12.1
	6H	9.5	9.7	10.5	10.8	12.2	9.5	9.7	10.5	10.8	12.2
	8H	9.5	9.8	10.6	10.8	12.2	9.5	9.8	10.6	10.8	12.2

Maximum UGR = 12.3

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.)