



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_39_135-11_24_21-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.03
 [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-RM-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	4518
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	835	835	835
55	417	417	417
65	217	217	217
75	90	90	90
85	25	25	25

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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	5387.618	5387.618	5387.618	5387.618	5387.618	5387.618	5387.618	5387.618	5387.618
5	5160.272	5160.272	5160.272	5160.272	5160.272	5160.272	5160.272	5160.272	5160.272
10	4505.713	4505.713	4505.713	4505.713	4505.713	4505.713	4505.713	4505.713	4505.713
15	3334.003	3334.003	3334.003	3334.003	3334.003	3334.003	3334.003	3334.003	3334.003
20	2004.899	2004.899	2004.899	2004.899	2004.899	2004.899	2004.899	2004.899	2004.899
25	1057.287	1057.287	1057.287	1057.287	1057.287	1057.287	1057.287	1057.287	1057.287
30	544.883	544.883	544.883	544.883	544.883	544.883	544.883	544.883	544.883
35	280.436	280.436	280.436	280.436	280.436	280.436	280.436	280.436	280.436
40	150.648	150.648	150.648	150.648	150.648	150.648	150.648	150.648	150.648
45	94.811	94.811	94.811	94.811	94.811	94.811	94.811	94.811	94.811
50	67.954	67.954	67.954	67.954	67.954	67.954	67.954	67.954	67.954
55	51.715	51.715	51.715	51.715	51.715	51.715	51.715	51.715	51.715
60	39.224	39.224	39.224	39.224	39.224	39.224	39.224	39.224	39.224
65	28.356	28.356	28.356	28.356	28.356	28.356	28.356	28.356	28.356
70	18.987	18.987	18.987	18.987	18.987	18.987	18.987	18.987	18.987
75	11.992	11.992	11.992	11.992	11.992	11.992	11.992	11.992	11.992
80	7.370	7.370	7.370	7.370	7.370	7.370	7.370	7.370	7.370
85	3.373	3.373	3.373	3.373	3.373	3.373	3.373	3.373	3.373
90	4.920	4.920	4.920	4.920	4.920	4.920	4.920	4.920	4.920
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	1376.93	N.A.	30.50
0-30	1900.85	N.A.	42.10
0-40	2094.31	N.A.	46.40
0-60	2219.68	N.A.	49.10
0-80	2261.38	N.A.	50.10
0-90	2266.57	N.A.	50.20
10-90	1794.69	N.A.	39.70
20-40	717.38	N.A.	15.90
20-50	795.72	N.A.	17.60
40-70	153.79	N.A.	3.40
60-80	41.69	N.A.	0.90
70-80	13.28	N.A.	0.30
80-90	5.19	N.A.	0.10
90-110	13.80	N.A.	0.30
90-120	26.55	N.A.	0.60
90-130	51.19	N.A.	1.10
90-150	713.58	N.A.	15.80
90-180	2251.12	N.A.	49.80
110-180	2237.31	N.A.	49.50
0-180	4517.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	471.88
10-20	905.05
20-30	523.92
30-40	193.46
40-50	78.34
50-60	47.04
60-70	28.42
70-80	13.28
80-90	5.19
90-100	5.73
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	83	83	83	69	69	69	56	56	56	50
1	100	97	94	91	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	75	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	46	45	43	40
5	78	69	63	58	73	65	60	56	58	54	51	51	48	46	44	42	41	38
6	74	64	58	53	69	61	55	51	54	50	47	48	45	43	42	40	39	36
7	70	60	54	49	65	57	52	48	51	47	44	46	43	41	41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41	44	41	38	39	37	35	33
9	63	53	47	43	59	51	45	42	46	42	39	42	39	36	37	35	34	32
10	60	50	44	41	56	48	43	39	44	40	37	40	37	35	36	34	32	31

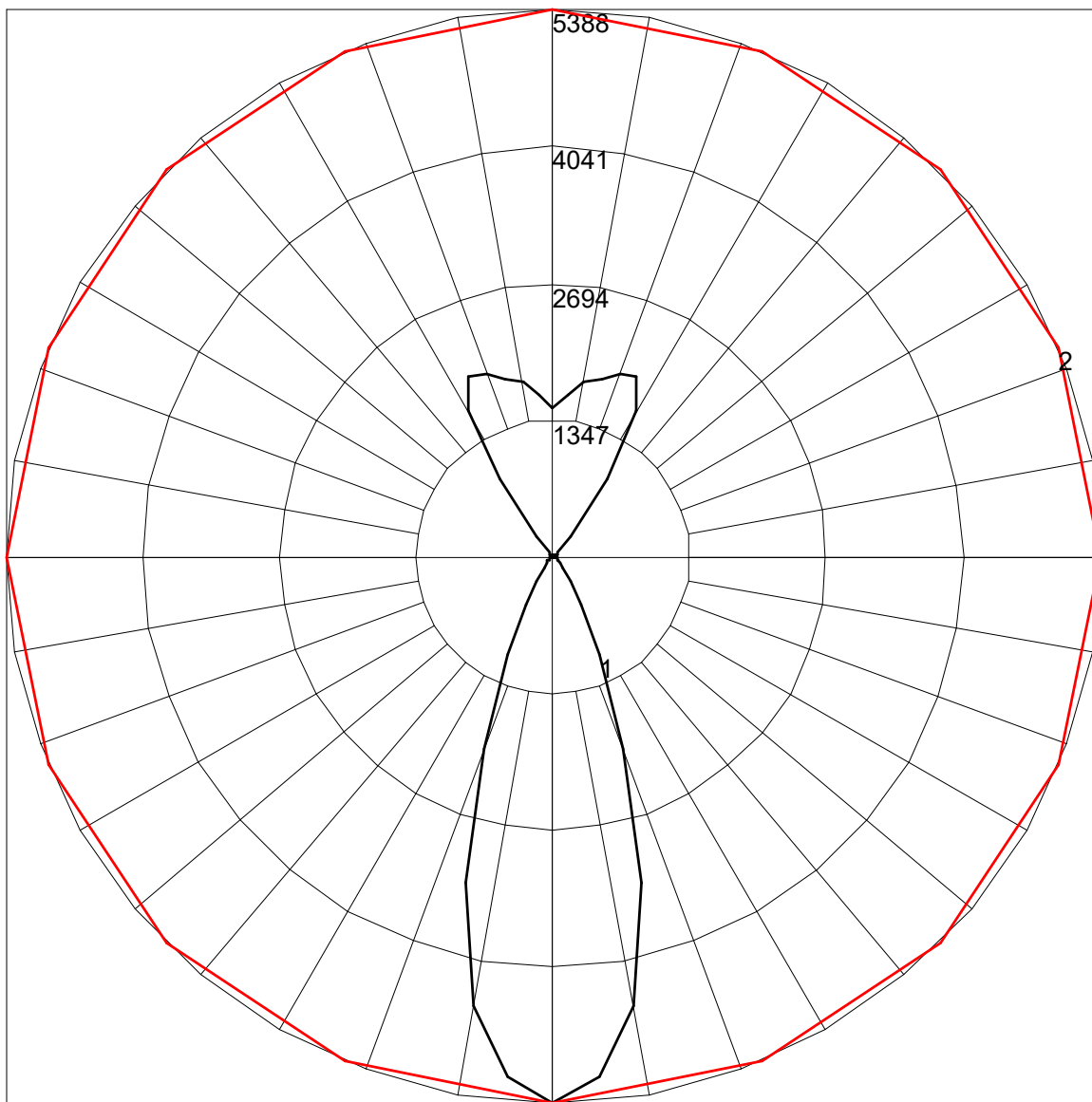
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UGR TABLE - CORRECTED

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	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	3H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	4H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	6H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	8H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	12H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
4H	2H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	3H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	4H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	6H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	8H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	12H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
8H	4H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	6H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	8H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	12H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
12H	4H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	6H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	8H	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2

Maximum UGR = 5.2

POLAR GRAPH



Maximum Candela = 5387.618 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.)