



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_17_29-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12329812.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 5-MAR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 8CRDI-TL-L25-9DWU-L25-9DWD-xxx-DIM-UNV-LW-CSU-LW-WHD-WM

[LUMINAIRE] 8" DIA. ALUMINUM CYLINDER

[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	4230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
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>
0.0	1350.049	1350.049	1350.049	1350.049	1350.049
2.5	1342.301	1342.301	1342.301	1342.301	1342.301
5.0	1328.710	1328.710	1328.710	1328.710	1328.710
7.5	1319.604	1319.604	1319.604	1319.604	1319.604
10.0	1311.856	1311.856	1311.856	1311.856	1311.856
12.5	1307.371	1307.371	1307.371	1307.371	1307.371
15.0	1297.042	1297.042	1297.042	1297.042	1297.042
17.5	1279.509	1279.509	1279.509	1279.509	1279.509
20.0	1254.092	1254.092	1254.092	1254.092	1254.092
22.5	1203.804	1203.804	1203.804	1203.804	1203.804
25.0	1118.449	1118.449	1118.449	1118.449	1118.449
27.5	1002.513	1002.513	1002.513	1002.513	1002.513
30.0	856.268	856.268	856.268	856.268	856.268
32.5	696.295	696.295	696.295	696.295	696.295
35.0	571.389	571.389	571.389	571.389	571.389
37.5	495.548	495.548	495.548	495.548	495.548
40.0	448.113	448.113	448.113	448.113	448.113
42.5	413.047	413.047	413.047	413.047	413.047
45.0	382.194	382.194	382.194	382.194	382.194
47.5	352.293	352.293	352.293	352.293	352.293
50.0	321.440	321.440	321.440	321.440	321.440
52.5	289.772	289.772	289.772	289.772	289.772
55.0	258.104	258.104	258.104	258.104	258.104
57.5	227.115	227.115	227.115	227.115	227.115
60.0	197.077	197.077	197.077	197.077	197.077
62.5	169.623	169.623	169.623	169.623	169.623
65.0	144.478	144.478	144.478	144.478	144.478
67.5	121.196	121.196	121.196	121.196	121.196
70.0	99.599	99.599	99.599	99.599	99.599
72.5	80.625	80.625	80.625	80.625	80.625
75.0	64.166	64.166	64.166	64.166	64.166
77.5	49.609	49.609	49.609	49.609	49.609
80.0	36.670	36.670	36.670	36.670	36.670
82.5	24.913	24.913	24.913	24.913	24.913
85.0	14.081	14.081	14.081	14.081	14.081
87.5	4.907	4.907	4.907	4.907	4.907
90.0	5.758	5.758	5.758	5.758	5.758
92.5	7.695	7.695	7.695	7.695	7.695
95.0	13.447	13.447	13.447	13.447	13.447
97.5	22.807	22.807	22.807	22.807	22.807
100.0	33.952	33.952	33.952	33.952	33.952
102.5	45.653	45.653	45.653	45.653	45.653
105.0	58.268	58.268	58.268	58.268	58.268
107.5	72.507	72.507	72.507	72.507	72.507
110.0	89.086	89.086	89.086	89.086	89.086
112.5	107.728	107.728	107.728	107.728	107.728
115.0	128.830	128.830	128.830	128.830	128.830
117.5	152.471	152.471	152.471	152.471	152.471
120.0	178.926	178.926	178.926	178.926	178.926
122.5	208.358	208.358	208.358	208.358	208.358
125.0	240.883	240.883	240.883	240.883	240.883
127.5	275.589	275.589	275.589	275.589	275.589
130.0	311.684	311.684	311.684	311.684	311.684
132.5	347.977	347.977	347.977	347.977	347.977

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135.0	384.231	384.231	384.231	384.231	384.231
137.5	422.031	422.031	422.031	422.031	422.031
140.0	465.662	465.662	465.662	465.662	465.662
142.5	521.589	521.589	521.589	521.589	521.589
145.0	596.952	596.952	596.952	596.952	596.952
147.5	694.527	694.527	694.527	694.527	694.527
150.0	815.504	815.504	815.504	815.504	815.504
152.5	941.637	941.637	941.637	941.637	941.637
155.0	1069.753	1069.753	1069.753	1069.753	1069.753
157.5	1183.987	1183.987	1183.987	1183.987	1183.987
160.0	1273.233	1273.233	1273.233	1273.233	1273.233
162.5	1333.126	1333.126	1333.126	1333.126	1333.126
165.0	1367.238	1367.238	1367.238	1367.238	1367.238
167.5	1385.483	1385.483	1385.483	1385.483	1385.483
170.0	1395.796	1395.796	1395.796	1395.796	1395.796
172.5	1403.332	1403.332	1403.332	1403.332	1403.332
175.0	1410.075	1410.075	1410.075	1410.075	1410.075
177.5	1413.249	1413.249	1413.249	1413.249	1413.249
180.0	1412.544	1412.544	1412.544	1412.544	1412.544

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	491.72	N.A.	11.60
0-30	993.15	N.A.	23.50
0-40	1367.51	N.A.	32.30
0-60	1893.77	N.A.	44.80
0-80	2107.18	N.A.	49.80
0-90	2124.89	N.A.	50.20
10-90	1998.51	N.A.	47.20
20-40	875.79	N.A.	20.70
20-50	1171.15	N.A.	27.70
40-70	670.48	N.A.	15.90
60-80	213.41	N.A.	5.00
70-80	69.19	N.A.	1.60
80-90	17.71	N.A.	0.40
90-110	80.08	N.A.	1.90
90-120	209.31	N.A.	4.90
90-130	425.76	N.A.	10.10
90-150	1103.96	N.A.	26.10
90-180	2104.79	N.A.	49.80
110-180	2024.7	N.A.	47.90
0-180	4229.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.38
10-20	365.34
20-30	501.42
30-40	374.37
40-50	295.36
50-60	230.90
60-70	144.22
70-80	69.19
80-90	17.71
90-100	17.36
100-110	62.72
110-120	129.23
120-130	216.45
130-140	297.12
140-150	381.08
150-160	484.27
160-170	382.46
170-180	134.11

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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	99	95	91	88	91	88	85	82	75	73	71	63	61	60	51	50	50	44
2	91	84	79	74	84	78	73	69	67	63	60	56	54	52	47	45	43	39
3	84	75	68	63	77	70	64	59	60	56	52	51	48	45	42	40	38	34
4	77	67	60	54	71	63	56	51	54	49	46	46	43	40	39	36	34	31
5	71	61	53	48	66	57	50	45	49	44	40	42	38	35	36	33	31	28
6	66	55	47	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	40	36	41	36	32	36	32	29	30	27	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	26	23	21	19
10	51	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

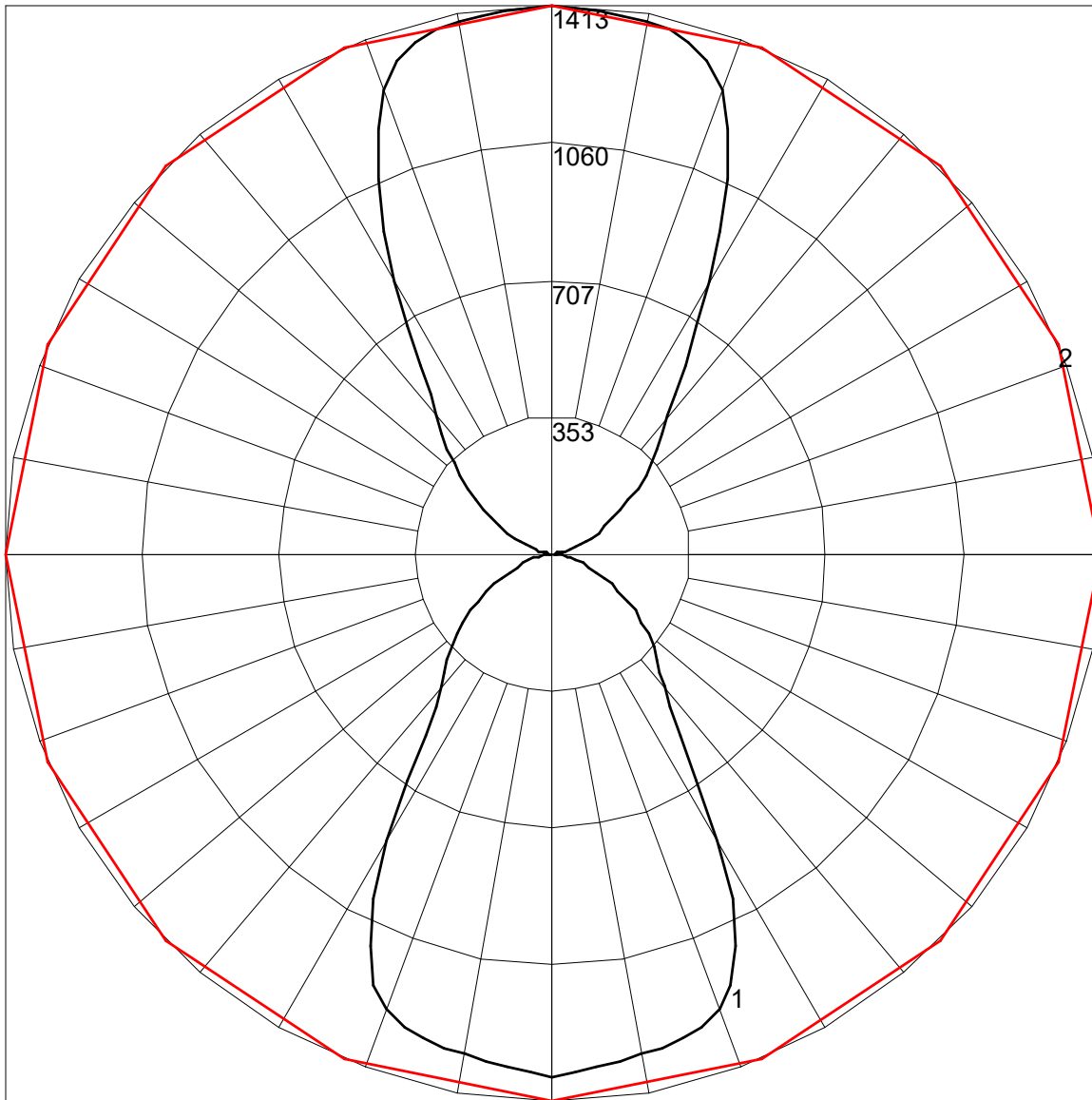
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	8.1	8.9	9.1	9.9	11.2	8.1	8.9	9.1	9.9	11.2
	3H	8.9	9.6	9.9	10.6	11.9	8.9	9.6	9.9	10.6	11.9
	4H	9.1	9.8	10.1	10.8	12.1	9.1	9.8	10.1	10.8	12.1
	6H	9.2	9.8	10.2	10.8	12.1	9.2	9.8	10.2	10.8	12.1
	8H	9.2	9.7	10.2	10.8	12.1	9.2	9.7	10.2	10.8	12.1
	12H	9.1	9.7	10.1	10.7	12.0	9.1	9.7	10.1	10.7	12.0
4H	2H	8.3	9.0	9.3	9.9	11.3	8.3	9.0	9.3	9.9	11.3
	3H	9.2	9.8	10.2	10.8	12.1	9.2	9.8	10.2	10.8	12.1
	4H	9.5	10.0	10.5	11.0	12.3	9.5	10.0	10.5	11.0	12.3
	6H	9.6	10.0	10.6	11.1	12.4	9.6	10.0	10.6	11.1	12.4
	8H	9.6	10.0	10.6	11.0	12.4	9.6	10.0	10.6	11.0	12.4
	12H	9.6	9.9	10.6	11.0	12.3	9.6	9.9	10.6	11.0	12.3
8H	4H	9.5	9.9	10.5	10.9	12.2	9.5	9.9	10.5	10.9	12.2
	6H	9.6	10.0	10.7	11.0	12.4	9.6	10.0	10.7	11.0	12.4
	8H	9.7	9.9	10.7	11.0	12.4	9.7	9.9	10.7	11.0	12.4
	12H	9.6	9.9	10.7	10.9	12.4	9.6	9.9	10.7	10.9	12.4
12H	4H	9.4	9.8	10.5	10.8	12.2	9.4	9.8	10.5	10.8	12.2
	6H	9.6	9.9	10.7	10.9	12.3	9.6	9.9	10.7	10.9	12.3
	8H	9.6	9.9	10.7	10.9	12.3	9.6	9.9	10.7	10.9	12.3

Maximum UGR = 12.4

POLAR GRAPH



Maximum Candela = 1413.249 Located At Horizontal Angle = 0, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)