



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_32_3-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & BALLABS #20687.0

[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-OW-CSD-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	4584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
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	477	477	477
55	123	123	123
65	18	18	18
75	0	0	0
85	0	0	0

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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	1971.141	1971.141	1971.141	1971.141	1971.141
5	1861.502	1861.502	1861.502	1861.502	1861.502
10	2048.949	2048.949	2048.949	2048.949	2048.949
15	2045.412	2045.412	2045.412	2045.412	2045.412
20	2136.189	2136.189	2136.189	2136.189	2136.189
25	2336.604	2336.604	2336.604	2336.604	2336.604
30	2295.342	2295.342	2295.342	2295.342	2295.342
35	712.063	712.063	712.063	712.063	712.063
40	97.850	97.850	97.850	97.850	97.850
45	54.230	54.230	54.230	54.230	54.230
50	31.831	31.831	31.831	31.831	31.831
55	15.326	15.326	15.326	15.326	15.326
60	8.252	8.252	8.252	8.252	8.252
65	2.358	2.358	2.358	2.358	2.358
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	4.997	4.997	4.997	4.997	4.997
95	13.447	13.447	13.447	13.447	13.447
100	33.952	33.952	33.952	33.952	33.952
105	58.268	58.268	58.268	58.268	58.268
110	89.086	89.086	89.086	89.086	89.086
115	128.830	128.830	128.830	128.830	128.830
120	178.926	178.926	178.926	178.926	178.926
125	240.883	240.883	240.883	240.883	240.883
130	311.684	311.684	311.684	311.684	311.684
135	384.231	384.231	384.231	384.231	384.231
140	465.662	465.662	465.662	465.662	465.662
145	596.952	596.952	596.952	596.952	596.952
150	815.504	815.504	815.504	815.504	815.504
155	1069.753	1069.753	1069.753	1069.753	1069.753
160	1273.233	1273.233	1273.233	1273.233	1273.233
165	1367.238	1367.238	1367.238	1367.238	1367.238
170	1395.796	1395.796	1395.796	1395.796	1395.796
175	1410.075	1410.075	1410.075	1410.075	1410.075
180	1412.544	1412.544	1412.544	1412.544	1412.544

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	773.20	N.A.	16.90
0-30	1828.49	N.A.	39.90
0-40	2406.48	N.A.	52.50
0-60	2467.74	N.A.	53.80
0-80	2470.91	N.A.	53.90
0-90	2472.28	N.A.	53.90
10-90	2286.57	N.A.	49.90
20-40	1633.28	N.A.	35.60
20-50	1678.83	N.A.	36.60
40-70	64.43	N.A.	1.40
60-80	3.18	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	1.37	N.A.	0.00
90-110	81.12	N.A.	1.80
90-120	211.11	N.A.	4.60
90-130	428.30	N.A.	9.30
90-150	1111.57	N.A.	24.20
90-180	2111.51	N.A.	46.10
110-180	2030.39	N.A.	44.30
0-180	4583.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.71
10-20	587.50
20-30	1055.29
30-40	577.99
40-50	45.55
50-60	15.70
60-70	3.18
70-80	0.00
80-90	1.37
90-100	17.93
100-110	63.19
110-120	129.99
120-130	217.18
130-140	297.98
140-150	385.28
150-160	484.32
160-170	381.51
170-180	134.12

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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	101	98	95	92	94	91	89	86	79	77	75	67	66	65	57	56	55	50
2	94	89	84	80	88	83	79	76	72	70	67	63	61	59	53	52	51	47
3	88	81	75	71	82	76	71	67	67	63	60	58	56	54	50	49	47	44
4	83	74	68	63	77	70	64	60	62	58	54	54	51	49	47	45	44	41
5	77	68	61	56	72	64	58	54	57	53	49	51	47	45	44	42	41	38
6	72	63	56	51	68	59	53	49	53	49	45	47	44	41	42	39	38	35
7	68	58	51	47	64	55	49	45	49	45	41	44	41	38	39	37	35	33
8	64	54	47	43	60	51	45	41	46	41	38	41	38	35	37	35	33	31
9	60	50	43	39	57	47	42	38	43	39	35	39	35	33	35	32	30	29
10	57	46	40	36	53	44	39	35	40	36	33	37	33	31	33	30	28	27

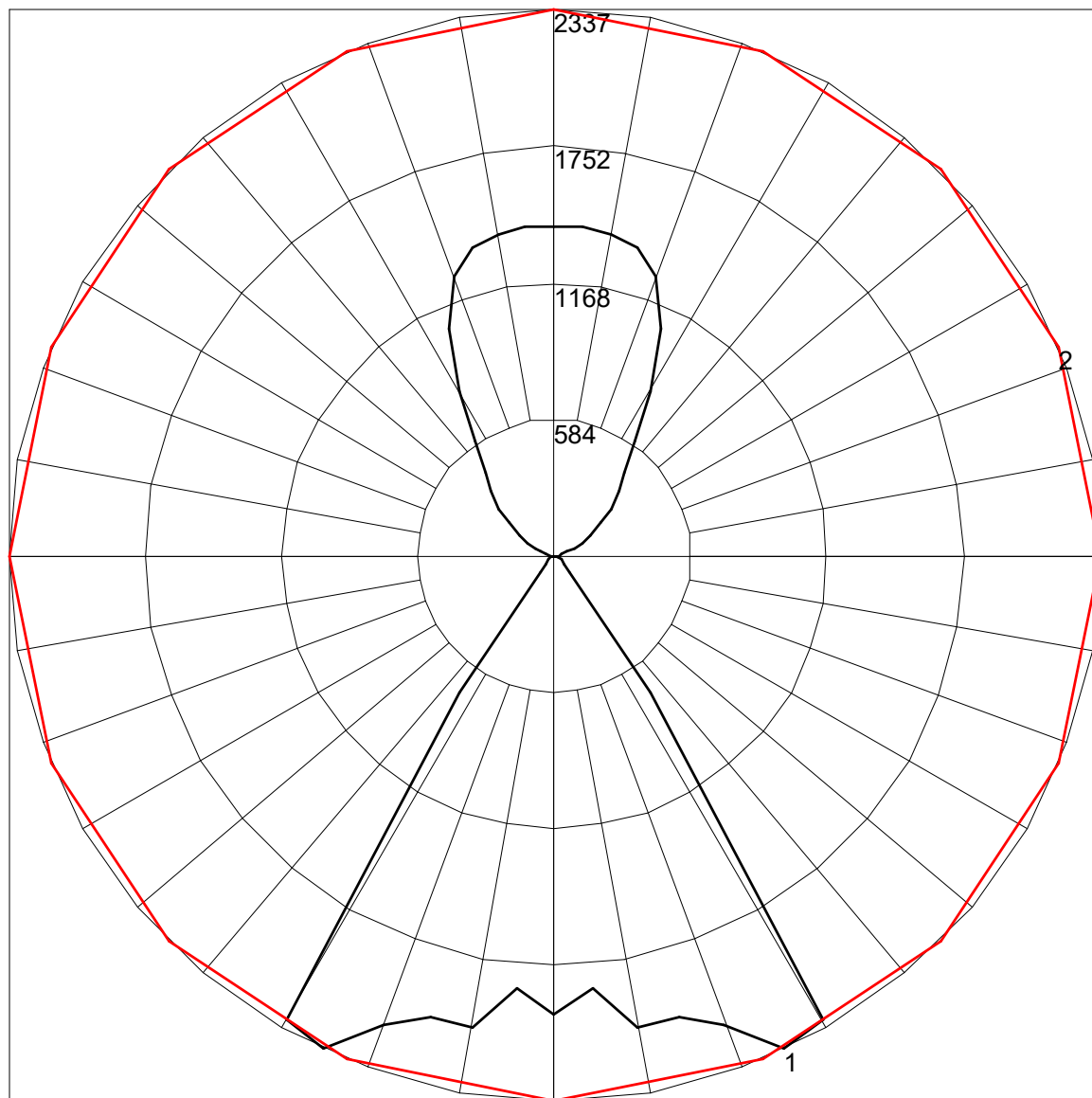
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UGR TABLE - CORRECTED

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 = 2336.604 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)