



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_13_11-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.10

[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-LN-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	4423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
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	826	826	826
55	449	449	449
65	255	255	255
75	125	125	125
85	27	27	27

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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	8609.934	8609.934	8609.934	8609.934	8609.934
2.5	8396.786	8396.786	8396.786	8396.786	8396.786
5.0	7792.448	7792.448	7792.448	7792.448	7792.448
7.5	6873.403	6873.403	6873.403	6873.403	6873.403
10.0	5731.179	5731.179	5731.179	5731.179	5731.179
12.5	4504.950	4504.950	4504.950	4504.950	4504.950
15.0	3346.427	3346.427	3346.427	3346.427	3346.427
17.5	2396.037	2396.037	2396.037	2396.037	2396.037
20.0	1685.125	1685.125	1685.125	1685.125	1685.125
22.5	1164.416	1164.416	1164.416	1164.416	1164.416
25.0	795.419	795.419	795.419	795.419	795.419
27.5	544.907	544.907	544.907	544.907	544.907
30.0	381.410	381.410	381.410	381.410	381.410
32.5	275.588	275.588	275.588	275.588	275.588
35.0	206.378	206.378	206.378	206.378	206.378
37.5	160.864	160.864	160.864	160.864	160.864
40.0	130.397	130.397	130.397	130.397	130.397
42.5	109.332	109.332	109.332	109.332	109.332
45.0	93.785	93.785	93.785	93.785	93.785
47.5	81.623	81.623	81.623	81.623	81.623
50.0	71.467	71.467	71.467	71.467	71.467
52.5	62.941	62.941	62.941	62.941	62.941
55.0	55.669	55.669	55.669	55.669	55.669
57.5	49.275	49.275	49.275	49.275	49.275
60.0	43.507	43.507	43.507	43.507	43.507
62.5	38.241	38.241	38.241	38.241	38.241
65.0	33.351	33.351	33.351	33.351	33.351
67.5	28.712	28.712	28.712	28.712	28.712
70.0	24.324	24.324	24.324	24.324	24.324
72.5	20.312	20.312	20.312	20.312	20.312
75.0	16.676	16.676	16.676	16.676	16.676
77.5	13.040	13.040	13.040	13.040	13.040
80.0	9.780	9.780	9.780	9.780	9.780
82.5	6.645	6.645	6.645	6.645	6.645
85.0	3.636	3.636	3.636	3.636	3.636
87.5	1.379	1.379	1.379	1.379	1.379
90.0	5.248	5.248	5.248	5.248	5.248
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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PHOTOMETRIC FILENAME : 192_168_37_234-15_13_11-MERGED.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1607.22	N.A.	36.30
0-30	1999.29	N.A.	45.20
0-40	2137.46	N.A.	48.30
0-60	2261.84	N.A.	51.10
0-80	2312.71	N.A.	52.30
0-90	2317.93	N.A.	52.40
10-90	1640.28	N.A.	37.10
20-40	530.25	N.A.	12.00
20-50	604.31	N.A.	13.70
40-70	157.56	N.A.	3.60
60-80	50.87	N.A.	1.20
70-80	17.68	N.A.	0.40
80-90	5.22	N.A.	0.10
90-110	80.01	N.A.	1.80
90-120	209.24	N.A.	4.70
90-130	425.69	N.A.	9.60
90-150	1103.89	N.A.	25.00
90-180	2104.72	N.A.	47.60
110-180	2024.7	N.A.	45.80
0-180	4422.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	677.65
10-20	929.57
20-30	392.07
30-40	138.17
40-50	74.06
50-60	50.31
60-70	33.19
70-80	17.68
80-90	5.22
90-100	17.29
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	101	98	95	92	94	91	89	87	78	77	75	67	66	65	56	55	55	50
2	95	90	85	81	88	84	80	77	73	70	68	63	61	60	53	52	51	47
3	89	82	77	73	83	77	73	69	68	65	62	59	57	55	51	50	49	45
4	84	76	70	66	79	72	67	63	64	60	57	56	54	52	49	48	46	43
5	80	71	65	61	75	67	62	58	60	56	53	54	51	49	47	46	44	41
6	76	67	60	56	71	63	58	54	57	53	50	51	48	46	46	44	42	40
7	72	63	57	52	68	60	54	51	54	50	47	49	46	44	44	42	40	38
8	68	59	53	49	65	56	51	48	52	48	45	47	44	42	42	40	39	37
9	65	56	50	46	62	54	49	45	49	45	43	45	42	40	41	39	38	36
10	63	53	48	44	59	51	46	43	47	43	41	43	41	38	40	38	36	35

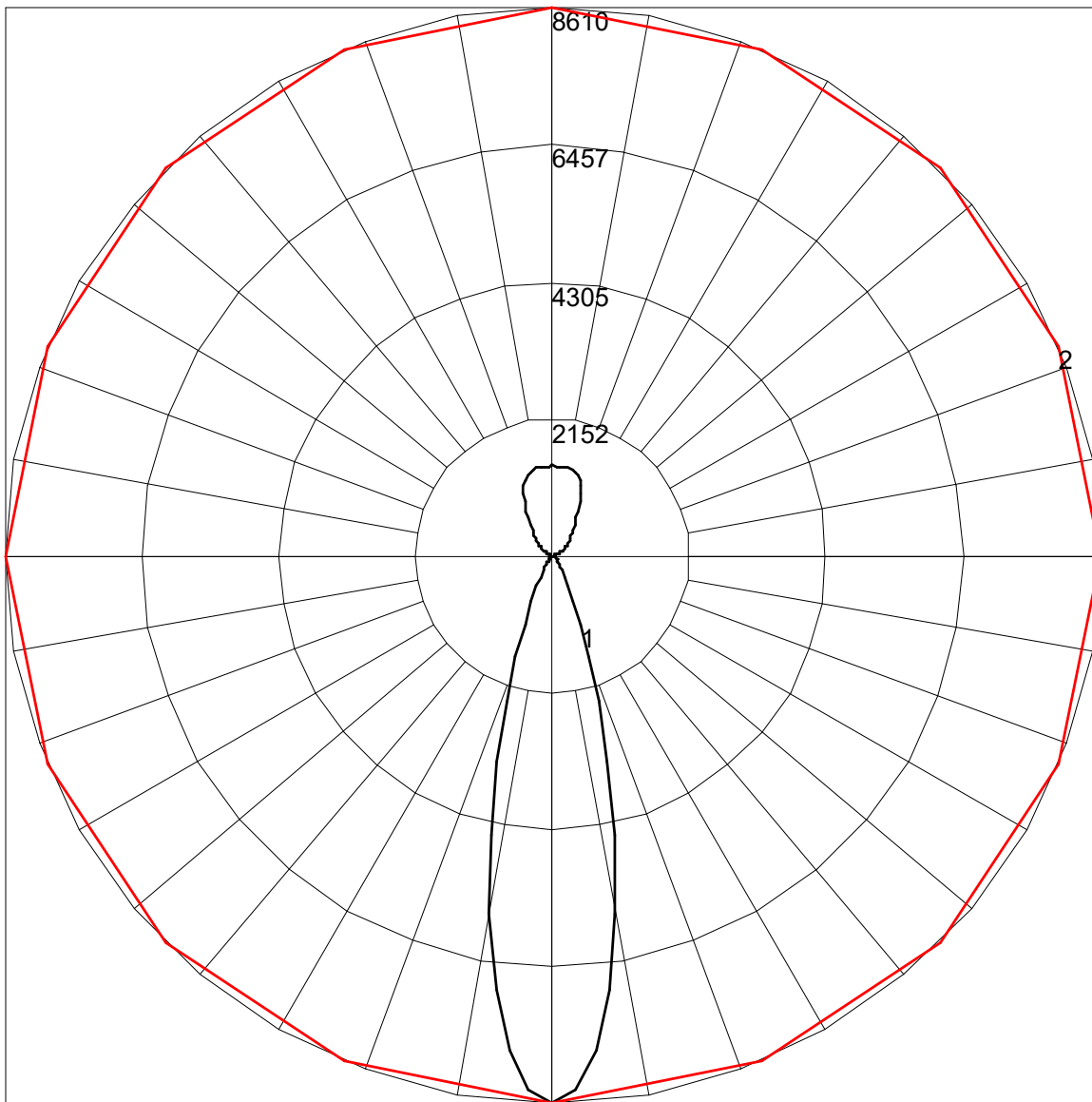
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UGR TABLE - CORRECTED

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 = 8609.934 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.)