



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_58_32-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.04
 [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-RM-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	4341
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	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>
0.0	5387.618	5387.618	5387.618	5387.618	5387.618
2.5	5326.410	5326.410	5326.410	5326.410	5326.410
5.0	5160.272	5160.272	5160.272	5160.272	5160.272
7.5	4894.201	4894.201	4894.201	4894.201	4894.201
10.0	4505.713	4505.713	4505.713	4505.713	4505.713
12.5	3979.817	3979.817	3979.817	3979.817	3979.817
15.0	3334.003	3334.003	3334.003	3334.003	3334.003
17.5	2648.215	2648.215	2648.215	2648.215	2648.215
20.0	2004.899	2004.899	2004.899	2004.899	2004.899
22.5	1469.010	1469.010	1469.010	1469.010	1469.010
25.0	1057.287	1057.287	1057.287	1057.287	1057.287
27.5	758.364	758.364	758.364	758.364	758.364
30.0	544.883	544.883	544.883	544.883	544.883
32.5	391.361	391.361	391.361	391.361	391.361
35.0	280.436	280.436	280.436	280.436	280.436
37.5	202.613	202.613	202.613	202.613	202.613
40.0	150.648	150.648	150.648	150.648	150.648
42.5	117.171	117.171	117.171	117.171	117.171
45.0	94.811	94.811	94.811	94.811	94.811
47.5	79.322	79.322	79.322	79.322	79.322
50.0	67.954	67.954	67.954	67.954	67.954
52.5	59.085	59.085	59.085	59.085	59.085
55.0	51.715	51.715	51.715	51.715	51.715
57.5	45.220	45.220	45.220	45.220	45.220
60.0	39.224	39.224	39.224	39.224	39.224
62.5	33.602	33.602	33.602	33.602	33.602
65.0	28.356	28.356	28.356	28.356	28.356
67.5	23.484	23.484	23.484	23.484	23.484
70.0	18.987	18.987	18.987	18.987	18.987
72.5	14.990	14.990	14.990	14.990	14.990
75.0	11.992	11.992	11.992	11.992	11.992
77.5	9.494	9.494	9.494	9.494	9.494
80.0	7.370	7.370	7.370	7.370	7.370
82.5	5.371	5.371	5.371	5.371	5.371
85.0	3.373	3.373	3.373	3.373	3.373
87.5	1.624	1.624	1.624	1.624	1.624
90.0	5.497	5.497	5.497	5.497	5.497
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	1371.72	N.A.	31.60
0-30	1879.75	N.A.	43.30
0-40	2066.94	N.A.	47.60
0-60	2190.42	N.A.	50.50
0-80	2231.81	N.A.	51.40
0-90	2236.38	N.A.	51.50
10-90	1764.31	N.A.	40.60
20-40	695.22	N.A.	16.00
20-50	771.93	N.A.	17.80
40-70	151.78	N.A.	3.50
60-80	41.39	N.A.	1.00
70-80	13.09	N.A.	0.30
80-90	4.58	N.A.	0.10
90-110	80.05	N.A.	1.80
90-120	209.27	N.A.	4.80
90-130	425.72	N.A.	9.80
90-150	1103.92	N.A.	25.40
90-180	2104.75	N.A.	48.50
110-180	2024.7	N.A.	46.60
0-180	4341.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	472.08
10-20	899.64
20-30	508.03
30-40	187.19
40-50	76.71
50-60	46.77
60-70	28.30
70-80	13.09
80-90	4.58
90-100	17.33
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	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	101	97	95	92	93	91	88	86	78	76	74	66	65	64	55	54	54	49
2	94	89	84	80	88	83	79	76	72	69	67	62	60	58	52	51	50	46
3	89	81	76	72	82	76	72	68	67	63	61	58	56	54	50	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	55	52	50	48	46	44	41
5	79	70	63	59	73	66	60	56	59	55	52	52	49	47	45	44	42	39
6	74	65	59	54	69	61	56	52	55	51	48	49	46	44	44	42	40	37
7	70	61	54	50	66	58	52	48	52	48	45	47	44	41	42	40	38	36
8	67	57	51	47	63	54	49	45	49	45	42	45	41	39	40	38	36	34
9	63	54	48	44	60	51	46	42	47	43	40	43	39	37	38	36	35	33
10	60	51	45	41	57	49	44	40	45	41	38	41	38	36	37	35	33	32

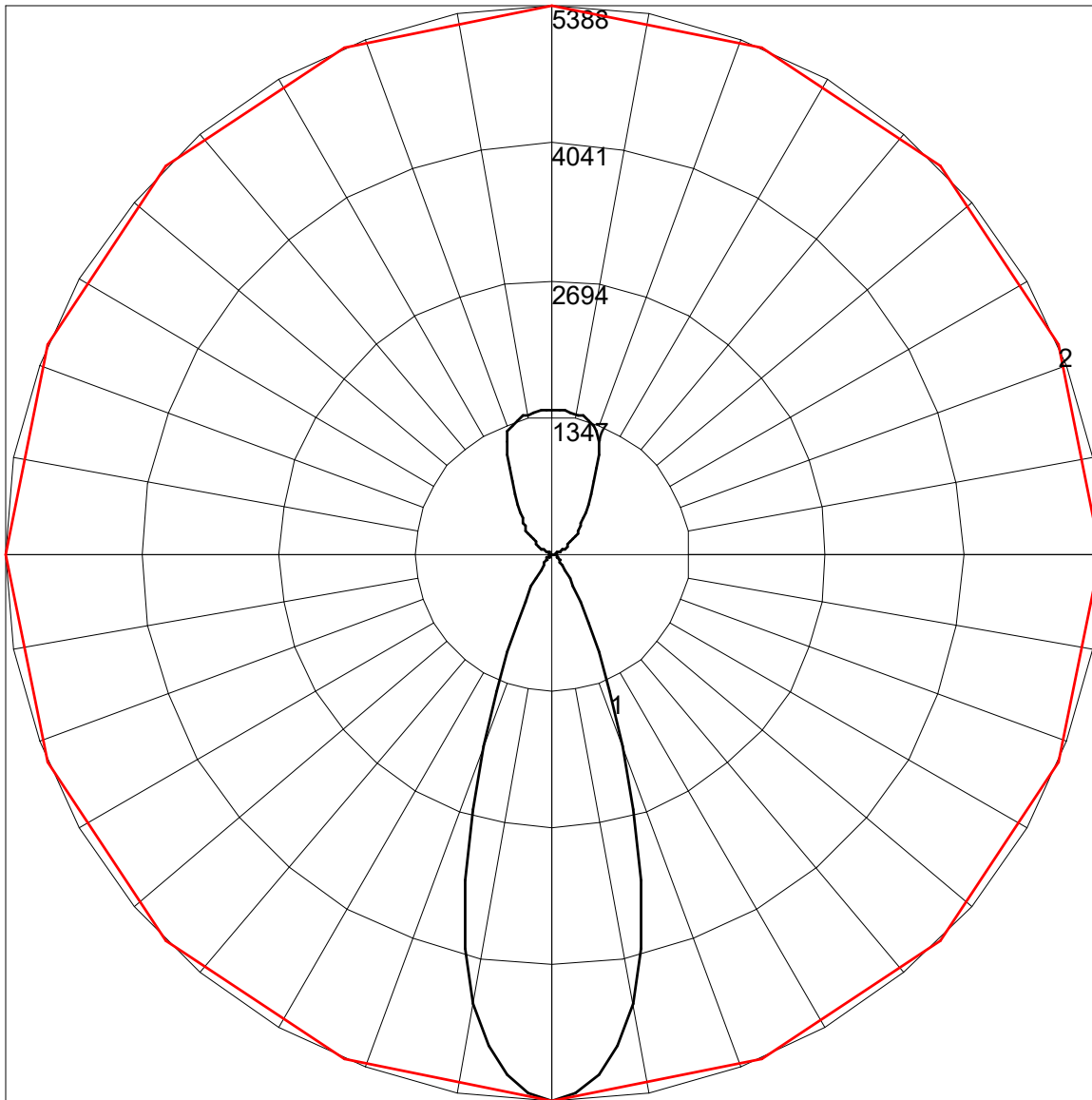
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UGR TABLE - CORRECTED

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	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	3H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	8H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	12H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
4H	2H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	3H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	8H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	12H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
8H	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	8H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	12H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
12H	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	8H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

Maximum UGR = 5.1

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.)