



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-16_52_46-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 4-MAR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 8CRDI-TL-L25-9DWU-L25-9DWD-xxx-DIM-UNV-LW-CSU-LM-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	4400
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	973	973	973
55	529	529	529
65	301	301	301
75	147	147	147
85	33	33	33

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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	5393.574	5393.574	5393.574	5393.574	5393.574
2.5	5336.381	5336.381	5336.381	5336.381	5336.381
5.0	5182.208	5182.208	5182.208	5182.208	5182.208
7.5	4928.568	4928.568	4928.568	4928.568	4928.568
10.0	4551.838	4551.838	4551.838	4551.838	4551.838
12.5	4037.099	4037.099	4037.099	4037.099	4037.099
15.0	3391.810	3391.810	3391.810	3391.810	3391.810
17.5	2699.274	2699.274	2699.274	2699.274	2699.274
20.0	2036.578	2036.578	2036.578	2036.578	2036.578
22.5	1484.538	1484.538	1484.538	1484.538	1484.538
25.0	1053.102	1053.102	1053.102	1053.102	1053.102
27.5	742.767	742.767	742.767	742.767	742.767
30.0	527.794	527.794	527.794	527.794	527.794
32.5	378.843	378.843	378.843	378.843	378.843
35.0	275.398	275.398	275.398	275.398	275.398
37.5	205.647	205.647	205.647	205.647	205.647
40.0	160.638	160.638	160.638	160.638	160.638
42.5	131.047	131.047	131.047	131.047	131.047
45.0	110.532	110.532	110.532	110.532	110.532
47.5	95.488	95.488	95.488	95.488	95.488
50.0	83.801	83.801	83.801	83.801	83.801
52.5	74.103	74.103	74.103	74.103	74.103
55.0	65.648	65.648	65.648	65.648	65.648
57.5	58.064	58.064	58.064	58.064	58.064
60.0	51.474	51.474	51.474	51.474	51.474
62.5	45.257	45.257	45.257	45.257	45.257
65.0	39.414	39.414	39.414	39.414	39.414
67.5	33.943	33.943	33.943	33.943	33.943
70.0	28.845	28.845	28.845	28.845	28.845
72.5	24.121	24.121	24.121	24.121	24.121
75.0	19.645	19.645	19.645	19.645	19.645
77.5	15.417	15.417	15.417	15.417	15.417
80.0	11.439	11.439	11.439	11.439	11.439
82.5	7.709	7.709	7.709	7.709	7.709
85.0	4.352	4.352	4.352	4.352	4.352
87.5	1.741	1.741	1.741	1.741	1.741
90.0	5.370	5.370	5.370	5.370	5.370
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	1388.91	N.A.	31.60
0-30	1896.55	N.A.	43.10
0-40	2081.25	N.A.	47.30
0-60	2228.65	N.A.	50.70
0-80	2288.82	N.A.	52.00
0-90	2294.86	N.A.	52.20
10-90	1819.94	N.A.	41.40
20-40	692.35	N.A.	15.70
20-50	780.48	N.A.	17.70
40-70	186.65	N.A.	4.20
60-80	60.17	N.A.	1.40
70-80	20.91	N.A.	0.50
80-90	6.05	N.A.	0.10
90-110	80.03	N.A.	1.80
90-120	209.26	N.A.	4.80
90-130	425.70	N.A.	9.70
90-150	1103.9	N.A.	25.10
90-180	2104.73	N.A.	47.80
110-180	2024.7	N.A.	46.00
0-180	4399.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	474.93
10-20	913.98
20-30	507.65
30-40	184.70
40-50	88.13
50-60	59.26
60-70	39.26
70-80	20.91
80-90	6.05
90-100	17.31
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	97	95	92	93	91	88	86	78	76	75	66	65	64	55	55	54	49
2	94	89	84	80	88	83	79	76	72	69	67	62	60	58	53	51	50	46
3	89	81	76	71	82	76	72	68	67	63	61	58	56	54	50	49	47	44
4	83	75	69	64	78	71	65	61	62	59	56	55	52	50	48	46	44	41
5	78	69	63	59	73	66	60	56	58	54	51	52	49	47	46	44	42	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	44	44	41	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	44	41	39	40	38	36	34
9	63	54	48	44	60	51	46	42	47	43	40	42	39	37	38	36	35	33
10	60	51	45	41	57	49	43	40	44	40	38	41	38	35	37	35	33	32

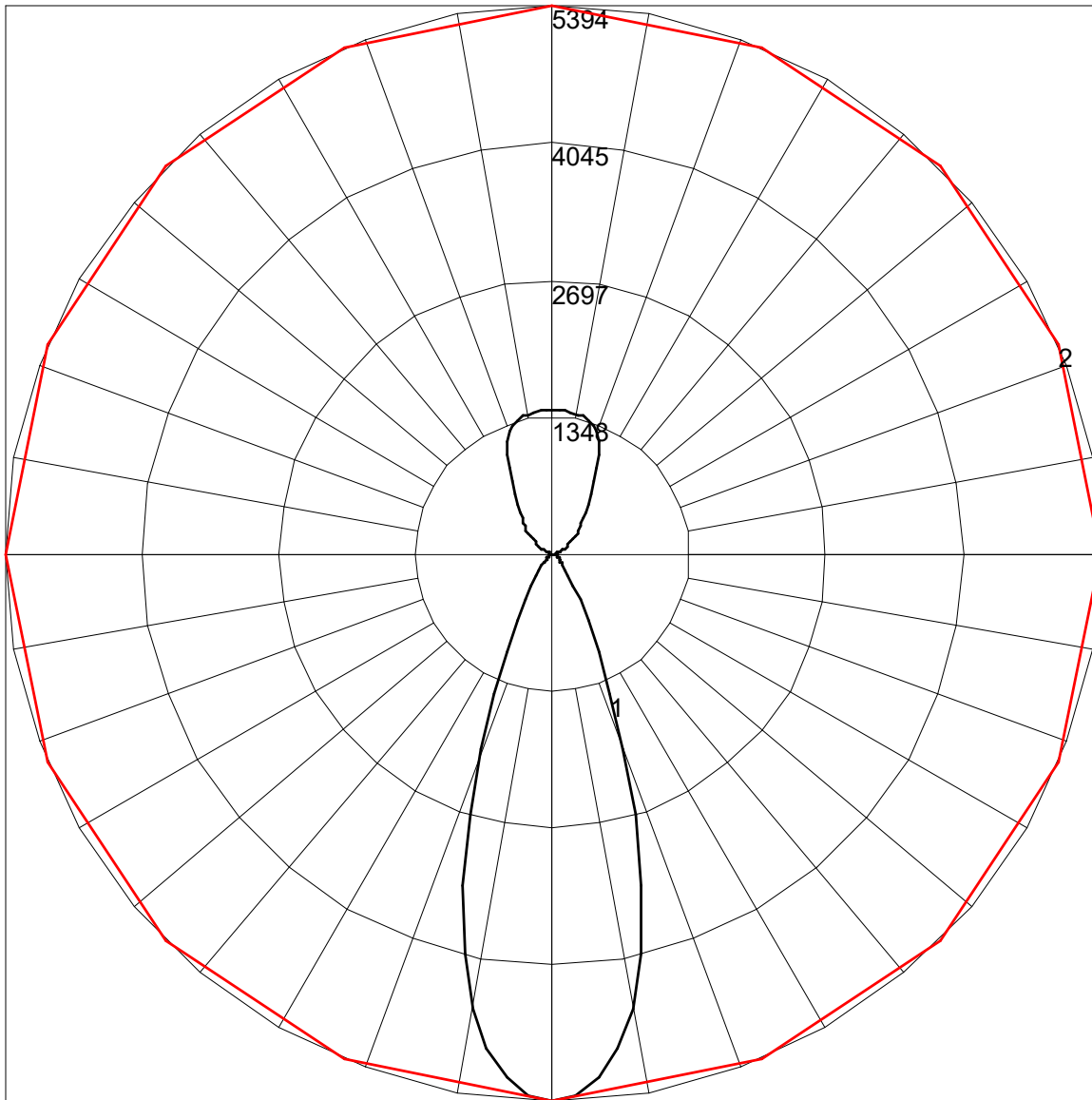
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UGR TABLE - CORRECTED

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	5.2	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 = 5393.574 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.)