



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-16_8_29-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.12

[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-RW-WHD-WM

[LUMINAIRE] 8" DIA. ALUMINUM REFLECTOR

[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	4162
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	2893	2893	2893
55	1791	1791	1791
65	883	883	883
75	324	324	324
85	87	87	87

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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	1519.533	1519.533	1519.533	1519.533	1519.533
2.5	1508.162	1508.162	1508.162	1508.162	1508.162
5.0	1482.575	1482.575	1482.575	1482.575	1482.575
7.5	1454.146	1454.146	1454.146	1454.146	1454.146
10.0	1422.874	1422.874	1422.874	1422.874	1422.874
12.5	1388.760	1388.760	1388.760	1388.760	1388.760
15.0	1354.645	1354.645	1354.645	1354.645	1354.645
17.5	1323.799	1323.799	1323.799	1323.799	1323.799
20.0	1296.081	1296.081	1296.081	1296.081	1296.081
22.5	1256.138	1256.138	1256.138	1256.138	1256.138
25.0	1188.903	1188.903	1188.903	1188.903	1188.903
27.5	1083.147	1083.147	1083.147	1083.147	1083.147
30.0	930.767	930.767	930.767	930.767	930.767
32.5	738.018	738.018	738.018	738.018	738.018
35.0	560.337	560.337	560.337	560.337	560.337
37.5	448.611	448.611	448.611	448.611	448.611
40.0	390.757	390.757	390.757	390.757	390.757
42.5	355.363	355.363	355.363	355.363	355.363
45.0	328.640	328.640	328.640	328.640	328.640
47.5	304.049	304.049	304.049	304.049	304.049
50.0	278.747	278.747	278.747	278.747	278.747
52.5	251.029	251.029	251.029	251.029	251.029
55.0	222.315	222.315	222.315	222.315	222.315
57.5	193.033	193.033	193.033	193.033	193.033
60.0	165.457	165.457	165.457	165.457	165.457
62.5	139.587	139.587	139.587	139.587	139.587
65.0	115.564	115.564	115.564	115.564	115.564
67.5	93.532	93.532	93.532	93.532	93.532
70.0	73.773	73.773	73.773	73.773	73.773
72.5	56.574	56.574	56.574	56.574	56.574
75.0	43.354	43.354	43.354	43.354	43.354
77.5	33.831	33.831	33.831	33.831	33.831
80.0	25.728	25.728	25.728	25.728	25.728
82.5	18.195	18.195	18.195	18.195	18.195
85.0	11.514	11.514	11.514	11.514	11.514
87.5	5.259	5.259	5.259	5.259	5.259
90.0	6.419	6.419	6.419	6.419	6.419
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	522.40	N.A.	12.60
0-30	1054.67	N.A.	25.30
0-40	1425.99	N.A.	34.30
0-60	1879.25	N.A.	45.20
0-80	2043.23	N.A.	49.10
0-90	2057.13	N.A.	49.40
10-90	1917.45	N.A.	46.10
20-40	903.59	N.A.	21.70
20-50	1158.56	N.A.	27.80
40-70	568.89	N.A.	13.70
60-80	163.98	N.A.	3.90
70-80	48.35	N.A.	1.20
80-90	13.89	N.A.	0.30
90-110	80.17	N.A.	1.90
90-120	209.40	N.A.	5.00
90-130	425.85	N.A.	10.20
90-150	1104.05	N.A.	26.50
90-180	2104.88	N.A.	50.60
110-180	2024.7	N.A.	48.60
0-180	4162.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.67
10-20	382.72
20-30	532.28
30-40	371.32
40-50	254.96
50-60	198.30
60-70	115.63
70-80	48.35
80-90	13.89
90-100	17.45
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	49
1	99	95	92	89	91	88	85	82	75	73	71	62	61	60	51	50	49	44
2	91	85	79	75	84	79	74	70	67	64	61	56	54	52	47	45	44	39
3	84	76	69	64	78	70	65	60	60	56	53	51	48	46	43	41	39	35
4	78	68	61	56	72	63	57	52	55	50	46	47	43	41	39	37	35	31
5	72	62	54	49	67	58	51	46	50	45	41	43	39	36	36	34	32	28
6	67	56	49	43	62	52	46	41	46	41	37	39	36	33	34	31	29	26
7	62	51	44	39	58	48	42	37	42	37	33	36	33	30	31	28	26	24
8	58	47	40	35	54	44	38	33	39	34	30	34	30	27	29	26	24	22
9	55	43	36	32	51	41	35	30	36	31	28	31	28	25	27	24	22	20
10	51	40	33	29	48	38	32	28	34	29	25	29	26	23	26	23	21	19

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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

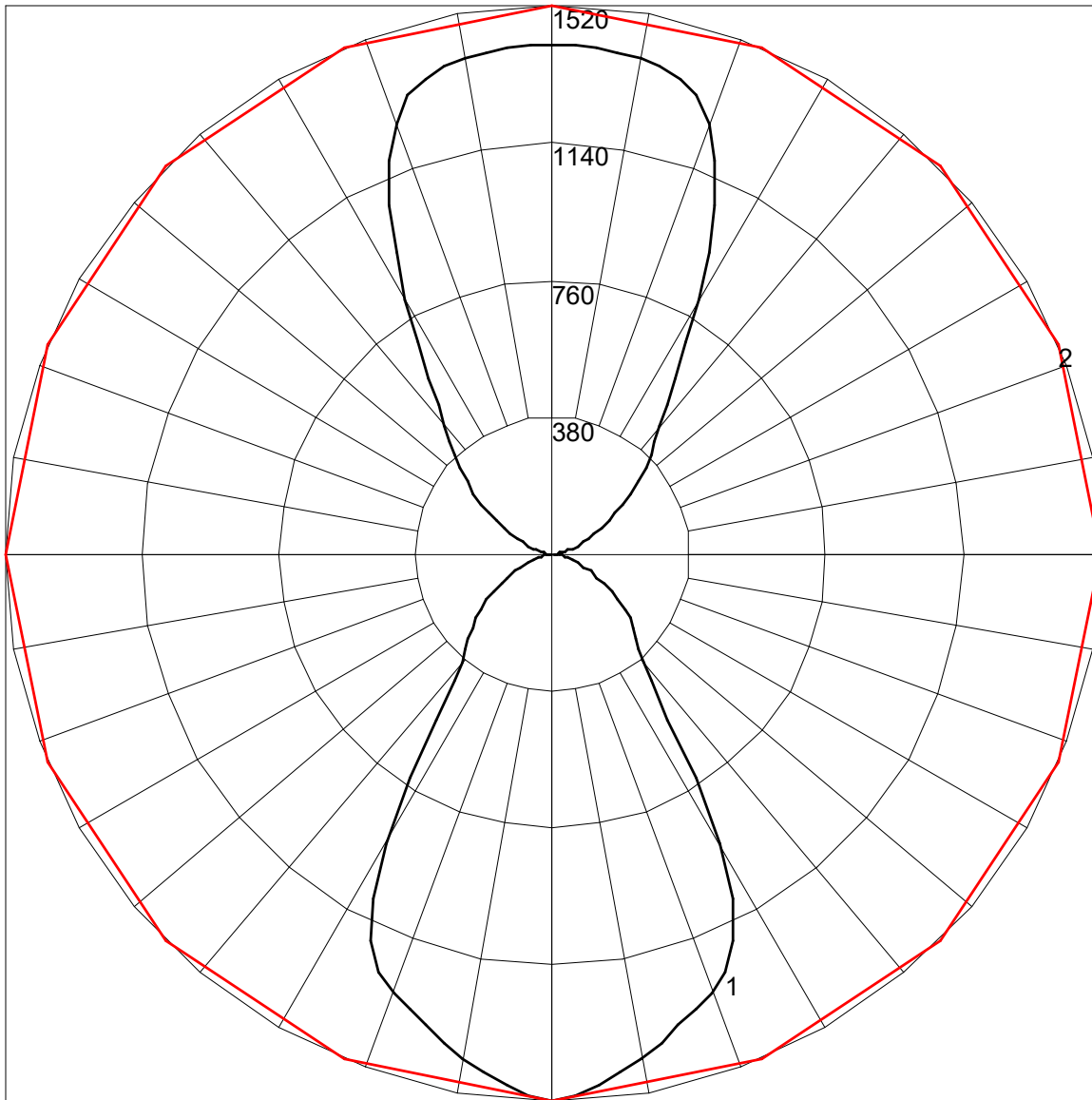
X=2H	Y=2H	7.1	7.9	8.1	8.8	10.1	7.1	7.9	8.1	8.8	10.1
	3H	7.7	8.4	8.7	9.4	10.7	7.7	8.4	8.7	9.4	10.7
	4H	7.8	8.5	8.8	9.5	10.8	7.8	8.5	8.8	9.5	10.8
	6H	7.8	8.4	8.9	9.4	10.8	7.8	8.4	8.9	9.4	10.8
	8H	7.8	8.4	8.8	9.4	10.7	7.8	8.4	8.8	9.4	10.7
	12H	7.8	8.3	8.8	9.3	10.7	7.8	8.3	8.8	9.3	10.7

UGR Viewed Endwise

4H	2H	7.2	7.9	8.2	8.9	10.2	7.2	7.9	8.2	8.9	10.2
	3H	7.9	8.5	9.0	9.5	10.8	7.9	8.5	9.0	9.5	10.8
	4H	8.1	8.6	9.1	9.6	10.9	8.1	8.6	9.1	9.6	10.9
	6H	8.1	8.6	9.2	9.6	11.0	8.1	8.6	9.2	9.6	11.0
	8H	8.1	8.5	9.2	9.6	10.9	8.1	8.5	9.2	9.6	10.9
	12H	8.1	8.4	9.1	9.5	10.9	8.1	8.4	9.1	9.5	10.9
8H	4H	8.0	8.4	9.1	9.5	10.8	8.0	8.4	9.1	9.5	10.8
	6H	8.1	8.4	9.2	9.5	10.9	8.1	8.4	9.2	9.5	10.9
	8H	8.1	8.4	9.2	9.5	10.9	8.1	8.4	9.2	9.5	10.9
	12H	8.1	8.4	9.2	9.4	10.8	8.1	8.4	9.2	9.4	10.8
12H	4H	8.0	8.3	9.0	9.4	10.7	8.0	8.3	9.0	9.4	10.7
	6H	8.1	8.4	9.2	9.4	10.8	8.1	8.4	9.2	9.4	10.8
	8H	8.1	8.3	9.2	9.4	10.8	8.1	8.3	9.2	9.4	10.8

Maximum UGR = 11.0

POLAR GRAPH



Maximum Candela = 1519.533 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.)