

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-930-DIM-UNV-OW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2022.1.0 see: www.ltiopics.com/ies

[ISSUEDATE] 03 AUGUST 2022

[TEST] H. E. WILLIAMS PHOTOMETRIC REPORT #W00543

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMINAIRE] 4DR-TL-L30-930-DIM-UNV-OW-OF-WH

[LAMP] LED 16.8W Vero COB array (500mA)

[LAMPCAT] BXRC-30E2000

[OTHER] THIS DATA IS BASED ON IN-HOUSE COMPUTER

[OTHER] SIMULATIONS AND IS PROVIDED AS A GOOD-FAITH

[OTHER] ESTIMATE OF PHOTOMETRIC PERFORMANCE.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.46 ft
Luminous Width (90-270)	0.46 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22467	22553	22553
55	19569	19569	19463
65	15239	15384	15384
75	11849	11612	11849
85	7038	7038	7038

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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	1507.300	1507.300	1507.300	1507.300	1507.300
5	1501.309	1506.102	1496.517	1489.328	1502.508
10	1449.788	1470.157	1490.526	1471.355	1482.139
15	1434.212	1449.788	1443.797	1427.023	1430.617
20	1403.059	1421.032	1405.456	1423.428	1400.663
25	1383.889	1373.105	1381.492	1370.709	1381.492
30	1022.041	1023.239	1018.446	1010.059	1012.455
35	346.272	346.272	347.470	343.875	347.470
40	322.308	323.506	323.506	325.903	327.101
45	310.327	312.723	311.525	309.128	311.525
50	276.778	274.381	273.183	274.381	273.183
55	219.265	218.067	219.265	219.265	218.067
60	167.744	170.140	170.140	170.140	170.140
65	125.808	127.006	127.006	127.006	127.006
70	92.259	89.863	89.863	89.863	91.061
75	59.909	58.710	58.710	59.909	59.909
80	33.549	33.549	33.549	32.351	33.549
85	11.982	11.982	11.982	11.982	11.982
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	550.05	N.A.	26.20
0-30	1145.65	N.A.	54.60
0-40	1458.29	N.A.	69.50
0-60	1891.27	N.A.	90.20
0-80	2082.26	N.A.	99.30
0-90	2097.83	N.A.	100.00
10-90	1955.55	N.A.	93.20
20-40	908.25	N.A.	43.30
20-50	1144.18	N.A.	54.50
40-70	560.09	N.A.	26.70
60-80	190.99	N.A.	9.10
70-80	63.87	N.A.	3.00
80-90	15.57	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2097.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.29
10-20	407.76
20-30	595.61
30-40	312.64
40-50	235.93
50-60	197.04
60-70	127.12
70-80	63.87
80-90	15.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

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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	20.7	22.0	21.1	22.3	22.7	20.7	22.0	21.1	22.4	22.7
	3H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	4H	22.5	23.6	22.9	23.9	24.3	22.5	23.6	22.9	23.9	24.3
	6H	22.8	23.8	23.2	24.2	24.6	22.8	23.8	23.2	24.2	24.6
	8H	22.9	23.8	23.3	24.2	24.6	22.9	23.8	23.3	24.2	24.6
	12H	22.9	23.8	23.3	24.2	24.6	22.9	23.8	23.3	24.2	24.6

UGR Viewed Endwise

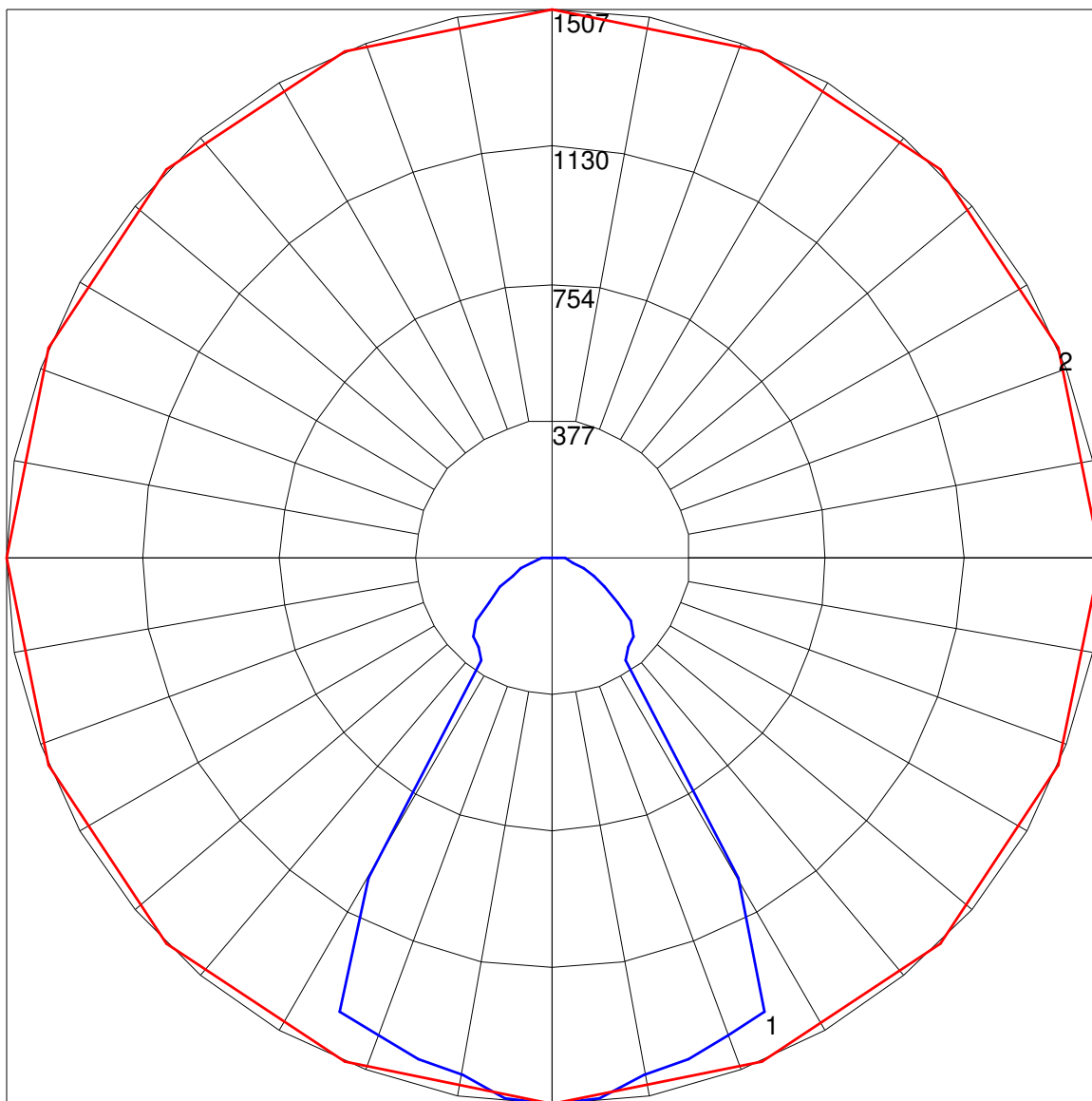
4H	2H	21.1	22.2	21.5	22.6	23.0	21.1	22.2	21.5	22.6	23.0
	3H	22.6	23.6	23.1	24.0	24.4	22.7	23.6	23.1	24.0	24.4
	4H	23.2	24.0	23.6	24.4	24.9	23.2	24.0	23.7	24.5	24.9
	6H	23.6	24.3	24.1	24.8	25.2	23.6	24.3	24.1	24.8	25.2
	8H	23.7	24.4	24.2	24.8	25.3	23.7	24.4	24.2	24.8	25.3
	12H	23.8	24.4	24.3	24.8	25.3	23.8	24.4	24.3	24.8	25.3

8H	4H	23.4	24.0	23.8	24.5	24.9	23.4	24.0	23.9	24.5	25.0
	6H	23.9	24.4	24.4	24.9	25.4	23.9	24.4	24.4	24.9	25.4
	8H	24.0	24.5	24.6	25.0	25.5	24.0	24.5	24.6	25.0	25.5
	12H	24.2	24.6	24.7	25.1	25.6	24.1	24.6	24.7	25.1	25.6

12H	4H	23.4	24.0	23.9	24.4	24.9	23.4	24.0	23.9	24.5	24.9
	6H	23.9	24.4	24.4	24.8	25.4	23.9	24.4	24.4	24.8	25.4
	8H	24.1	24.5	24.6	25.0	25.6	24.1	24.5	24.6	25.0	25.6

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 1507.3 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)