



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L30-830-XXX-DIM-UNV-RW-BL-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2018.1.0 see: www.ltiopics.com/ies

[ISSUEDATE] 12/22/2022

[TESTDATE] Wed Oct 03 09:39:14 2018

[TEST] H. E. WILLIAMS PHOTOMETRIC REPORT #W00519

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6 INCH ROUND LED CYLINDER

[LUMCAT] 6CR-TL-L30-830-xxx-DIM-UNV-RW-BL-xx

[LAMP] LED 16.8W Vero COB array

[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.

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29003	29003	28858
55	17966	17966	18144
65	7967	7967	7967
75	3942	3942	3548
85	2341	2341	2341

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	1891.442	1891.442	1891.442	1891.442	1891.442
5	1702.099	1708.078	1735.981	1731.995	1739.968
10	1688.147	1686.154	1674.196	1694.127	1678.182
15	1716.051	1720.037	1722.030	1718.044	1694.127
20	1662.237	1654.265	1660.244	1652.272	1650.279
25	1431.039	1437.018	1439.011	1439.011	1444.990
30	1014.483	1014.483	1014.483	1016.476	1016.476
35	665.692	663.699	663.699	665.692	665.692
40	506.245	500.266	506.245	502.259	500.266
45	400.611	394.632	400.611	398.618	398.618
50	294.977	296.970	296.970	296.970	298.964
55	201.302	201.302	201.302	201.302	203.295
60	119.585	121.578	119.585	121.578	121.578
65	65.772	65.772	65.772	65.772	65.772
70	33.883	31.889	31.889	31.889	31.889
75	19.931	19.931	19.931	17.938	17.938
80	11.959	11.959	11.959	11.959	11.959
85	3.986	3.986	3.986	3.986	3.986
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6CR-TL-L30-830-XXX-DIM-UNV-RW-BL-XX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	644.81	N.A.	27.90
0-30	1279.8	N.A.	55.40
0-40	1722.00	N.A.	74.60
0-60	2212.31	N.A.	95.80
0-80	2304.22	N.A.	99.80
0-90	2309.64	N.A.	100.00
10-90	2144.48	N.A.	92.80
20-40	1077.2	N.A.	46.60
20-50	1384.6	N.A.	59.90
40-70	560.46	N.A.	24.30
60-80	91.91	N.A.	4.00
70-80	21.75	N.A.	0.90
80-90	5.42	N.A.	0.20
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	2309.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.16
10-20	479.65
20-30	634.99
30-40	442.21
40-50	307.40
50-60	182.91
60-70	70.16
70-80	21.75
80-90	5.42
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	84	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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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

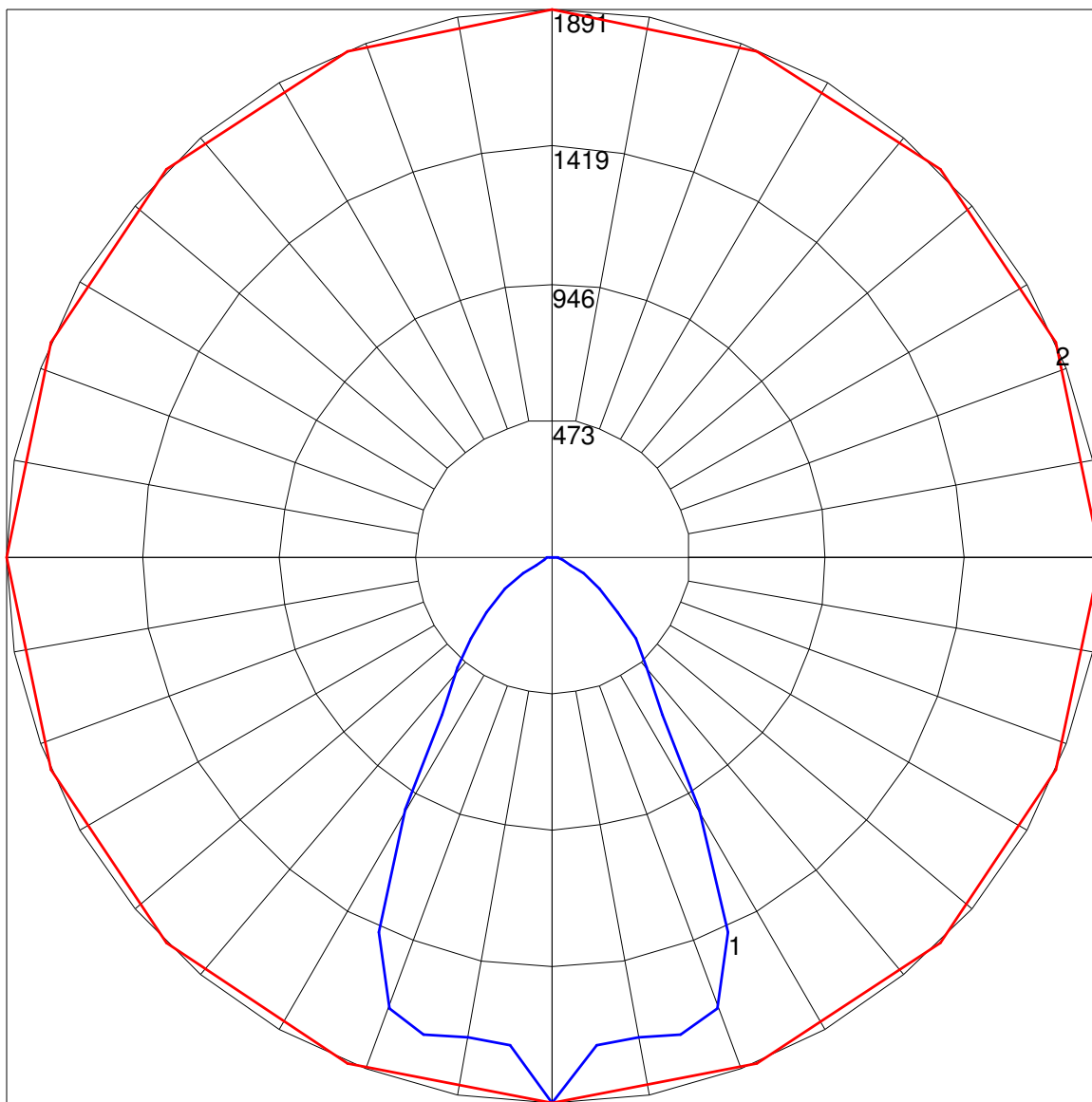
X=2H	Y=2H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.7	21.0
	3H	19.4	20.5	19.8	20.8	21.2	19.4	20.5	19.8	20.8	21.2
	4H	19.4	20.4	19.8	20.8	21.2	19.4	20.4	19.8	20.8	21.1
	6H	19.4	20.4	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	8H	19.4	20.3	19.9	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	12H	19.4	20.2	19.8	20.6	21.1	19.4	20.2	19.8	20.6	21.0

UGR Viewed Endwise

4H	2H	19.1	20.1	19.5	20.5	20.9	19.1	20.2	19.5	20.5	20.9
	3H	19.5	20.3	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.1
	4H	19.6	20.3	20.0	20.7	21.2	19.5	20.3	20.0	20.7	21.1
	6H	19.7	20.3	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	8H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.1
	12H	19.7	20.2	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.1
8H	4H	19.5	20.1	20.0	20.6	21.0	19.5	20.1	20.0	20.5	21.0
	6H	19.6	20.1	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.1
	8H	19.7	20.1	20.2	20.6	21.1	19.6	20.0	20.1	20.6	21.1
	12H	19.7	20.0	20.2	20.5	21.1	19.6	20.0	20.1	20.5	21.1
12H	4H	19.5	20.0	20.0	20.5	21.0	19.5	20.0	20.0	20.5	20.9
	6H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
	8H	19.7	20.0	20.2	20.5	21.1	19.6	20.0	20.1	20.5	21.1

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 1891.442 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.)