



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L42-8TW-XXX-DIM-UNV-OM-BL-XX_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia see: www.ltioptics.com/ies

[ISSUEDATE] 29-JAN-2021

[TESTDATE]

[TEST] H. E. WILLIAMS PHOTOMETRIC REPORT #W00529

[MANUFAC] H. E. WILLIAMS, INC.

[LUMINAIRE] 8CR-TL-L42/8TW-xxx-DIM-UNV-OM-BL-xx (4000K)

[LAMP] 22MM COB TO SIM. GL GLV93R5957U_98UP LM102A_V1

[LAMPCAT] CLU048-1212C4-303M2M2-F1

[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	5479 (1 lamp)
Total Lamp Lumens	5479
Luminaire Lumens	1975
Total Luminaire Efficiency	36 %
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	44.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.90
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	2099	2027	2027
55	803	803	803
65	363	363	363
75	198	198	198
85	0	0	0

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	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	2647	2647	2647	2647	2647
5	2524	2511	2519	2524	2483
10	2293	2258	2227	2265	2261
15	1984	2000	2001	2009	2003
20	1851	1833	1845	1833	1821
25	1731	1704	1703	1721	1682
30	1497	1486	1490	1494	1474
35	422	432	427	430	434
40	41	42	42	42	42
45	29	28	28	29	28
50	17	17	17	17	17
55	9	8	9	9	9
60	5	5	5	5	5
65	3	3	3	3	3
70	2	2	2	2	2
75	1	1	1	1	1
80	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

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Zone	Lumens	%Lamp	%Fixt
0-20	801.23	14.60	40.60
0-30	1577.77	28.80	79.90
0-40	1938.83	35.40	98.20
0-60	1969.78	36.00	99.80
0-80	1974.31	36.00	100.00
0-90	1974.58	36.00	100.00
10-90	1742.19	31.80	88.20
20-40	1137.6	20.80	57.60
20-50	1159.78	21.20	58.70
40-70	34.16	0.60	1.70
60-80	4.53	0.10	0.20
70-80	1.32	0.00	0.10
80-90	0.27	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1974.58	36.00	100.00

Total Luminaire Efficiency = 36.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	232.39
10-20	568.84
20-30	776.54
30-40	361.06
40-50	22.18
50-60	8.78
60-70	3.21
70-80	1.32
80-90	0.27
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	43	43	43	43	42	42	42	42	40	40	40	38	38	38	37	37	37	36
1	41	40	39	38	40	39	39	38	38	37	37	37	36	36	35	35	35	34
2	39	37	36	35	38	37	36	35	36	35	34	35	34	33	34	33	32	32
3	37	35	33	32	37	35	33	32	34	32	31	33	32	31	32	31	30	30
4	36	33	31	30	35	33	31	30	32	30	29	31	30	29	30	29	28	28
5	34	31	29	28	33	31	29	27	30	28	27	29	28	27	29	28	27	26
6	32	29	27	26	32	29	27	26	28	27	26	28	26	25	28	26	25	25
7	31	28	26	24	30	27	25	24	27	25	24	27	25	24	26	25	24	23
8	29	26	24	23	29	26	24	23	26	24	23	25	24	22	25	23	22	22
9	28	25	23	21	28	25	23	21	24	23	21	24	22	21	24	22	21	21
10	27	23	22	20	26	23	21	20	23	21	20	23	21	20	23	21	20	20

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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

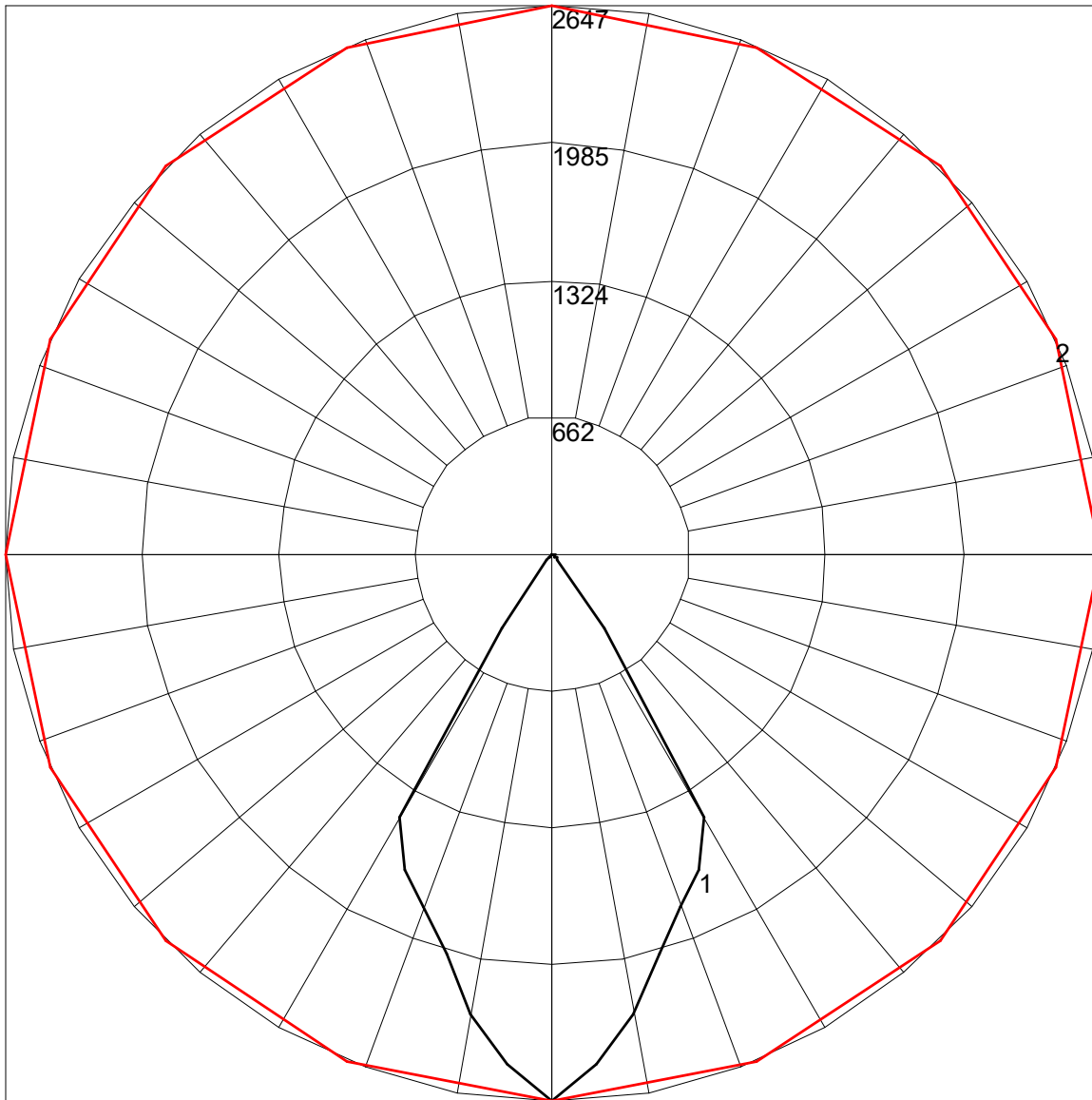
X=2H	Y=2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

UGR Viewed Endwise

4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
8H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
12H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 2647 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.)