



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L23-8TW-XXX-DIM-UNV-OW-CS-XX_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 29-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 8" ROUND SURFACE CYLINDER

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 8CR-TL-L23-8TW-xxx-DIM-OW-CS-xx

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2357
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4366	4366	4366
55	1521	1521	1521
65	318	318	318
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1880.203
5	1775.622
10	1954.421
15	1951.047
20	2037.636
25	2228.805
30	2189.446
35	679.212
40	93.335
45	51.728
50	30.362
55	14.619
60	7.872
65	2.249
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	737.53	N.A.	31.30
0-30	1744.14	N.A.	74.00
0-40	2295.46	N.A.	97.40
0-60	2353.89	N.A.	99.90
0-80	2356.92	N.A.	100.00
0-90	2356.92	N.A.	100.00
10-90	2179.78	N.A.	92.50
20-40	1557.93	N.A.	66.10
20-50	1601.38	N.A.	67.90
40-70	61.46	N.A.	2.60
60-80	3.03	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	2356.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.14
10-20	560.39
20-30	1006.6
30-40	551.32
40-50	43.45
50-60	14.98
60-70	3.03
70-80	0.00
80-90	0.00
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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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

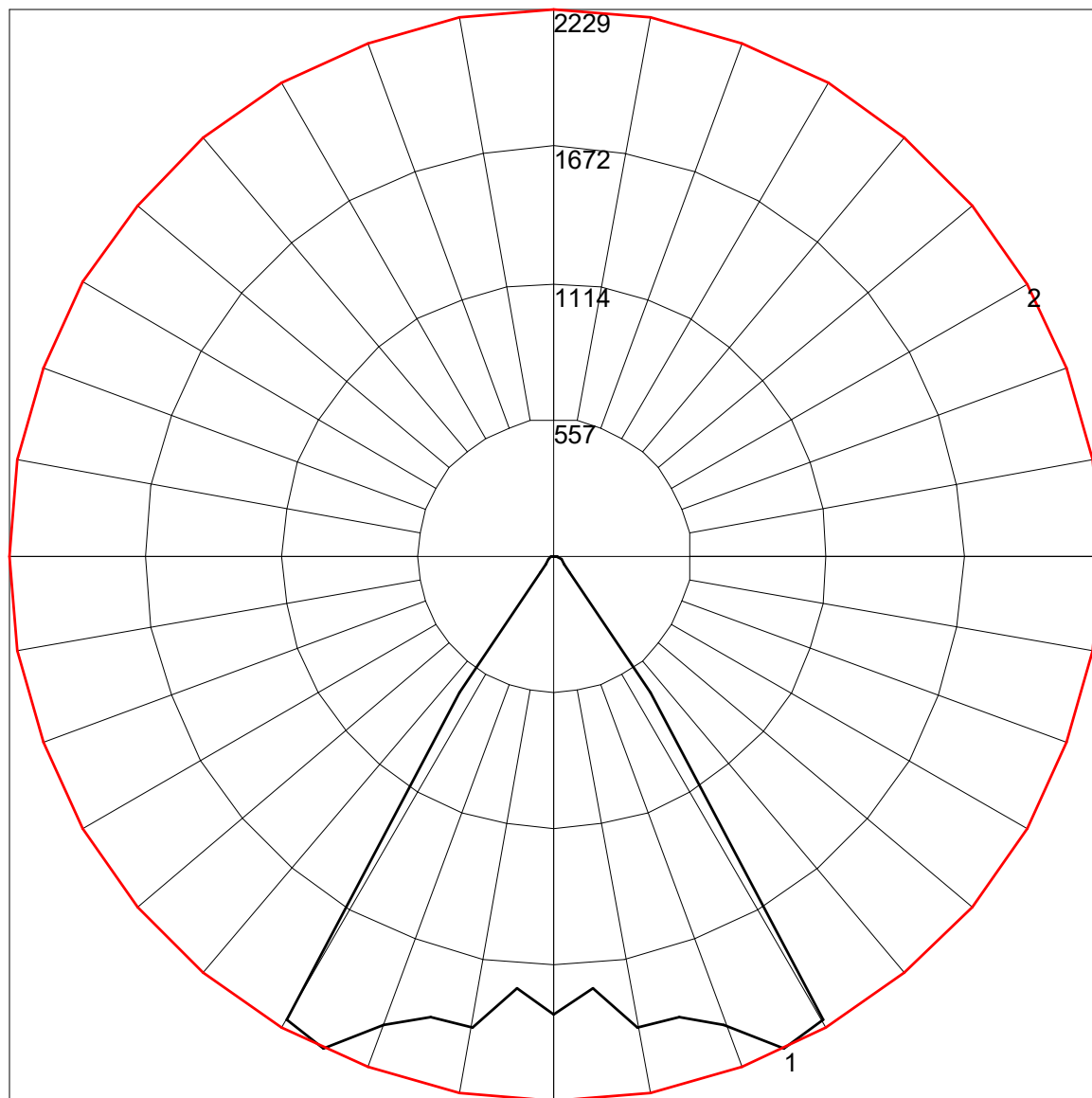
X=2H	Y=2H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	3H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	4H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	6H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	8H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	12H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

UGR Viewed Endwise

4H	2H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	3H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	4H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	6H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	8H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	12H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
8H	4H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	6H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	8H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	12H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
12H	4H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	6H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	8H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Maximum UGR = 3.0

POLAR GRAPH



Maximum Candela = 2228.805 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)