



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-(L25)-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8" DIA. SURFACE CYLINDER

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

[LUMCAT] 8CR-TL-L30-840-xxx-DIM-UNV-OW-(L25)-CS-xx

[LAMPCAT] V13 BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2533
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	22.7
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	4692	4692	4692
55	1635	1635	1635
65	341	341	341
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2020.599
5	1908.209
10	2100.359
15	2096.734
20	2189.788
25	2395.231
30	2352.934
35	729.929
40	100.305
45	55.591
50	32.629
55	15.710
60	8.459
65	2.417
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	792.61	N.A.	31.30
0-30	1874.37	N.A.	74.00
0-40	2466.86	N.A.	97.40
0-60	2529.65	N.A.	99.90
0-80	2532.91	N.A.	100.00
0-90	2532.91	N.A.	100.00
10-90	2342.54	N.A.	92.50
20-40	1674.26	N.A.	66.10
20-50	1720.95	N.A.	67.90
40-70	66.04	N.A.	2.60
60-80	3.26	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	2532.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.37
10-20	602.24
20-30	1081.77
30-40	592.49
40-50	46.69
50-60	16.10
60-70	3.26
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	3.2	3.2	3.2	3.2	3.2	UGR Viewed Endwise				
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

4H	2H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

8H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

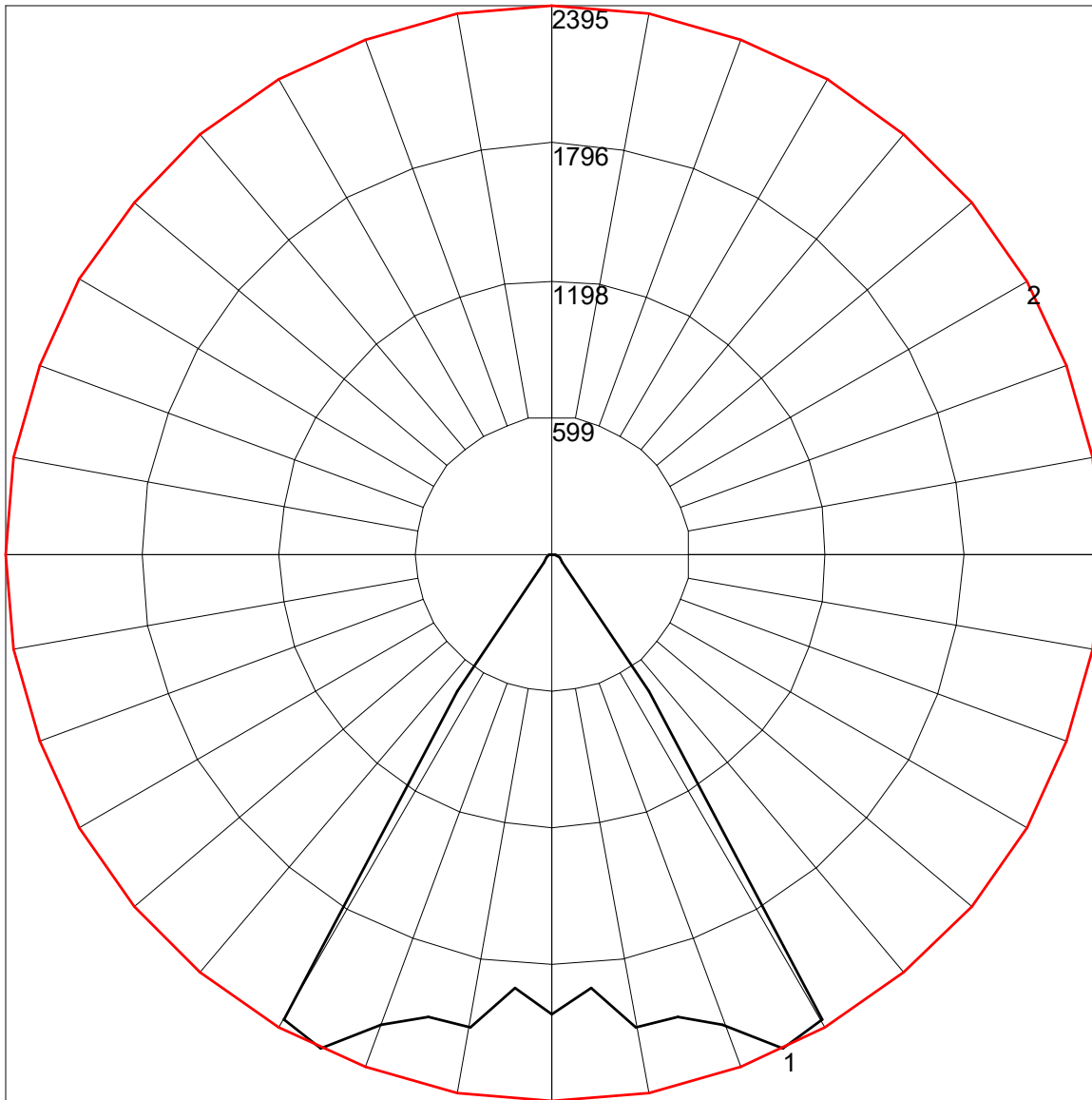
12H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

Maximum UGR = 3.2

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POLAR GRAPH



Maximum Candela = 2395.231 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.)