



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L20-840-XXX-DIM-UNV-OW-WH-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

[ISSUEDATE] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] OPEN WHITE REFLECTOR (WIDE)

[LUMCAT] 8CR-TL-L20-840-xxx-DIM-UNV-OW-WH-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	1810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	19.8
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	3352	3352	3352
55	1168	1168	1168
65	244	244	244
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1443.855
5	1363.545
10	1500.849
15	1498.259
20	1564.752
25	1711.555
30	1681.331
35	521.584
40	71.675
45	39.723
50	23.316
55	11.226
60	6.045
65	1.727
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	566.37	N.A.	31.30
0-30	1339.37	N.A.	74.00
0-40	1762.74	N.A.	97.40
0-60	1807.61	N.A.	99.90
0-80	1809.94	N.A.	100.00
0-90	1809.94	N.A.	100.00
10-90	1673.91	N.A.	92.50
20-40	1196.37	N.A.	66.10
20-50	1229.74	N.A.	67.90
40-70	47.19	N.A.	2.60
60-80	2.33	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	1809.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.03
10-20	430.34
20-30	773.00
30-40	423.38
40-50	33.36
50-60	11.50
60-70	2.33
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

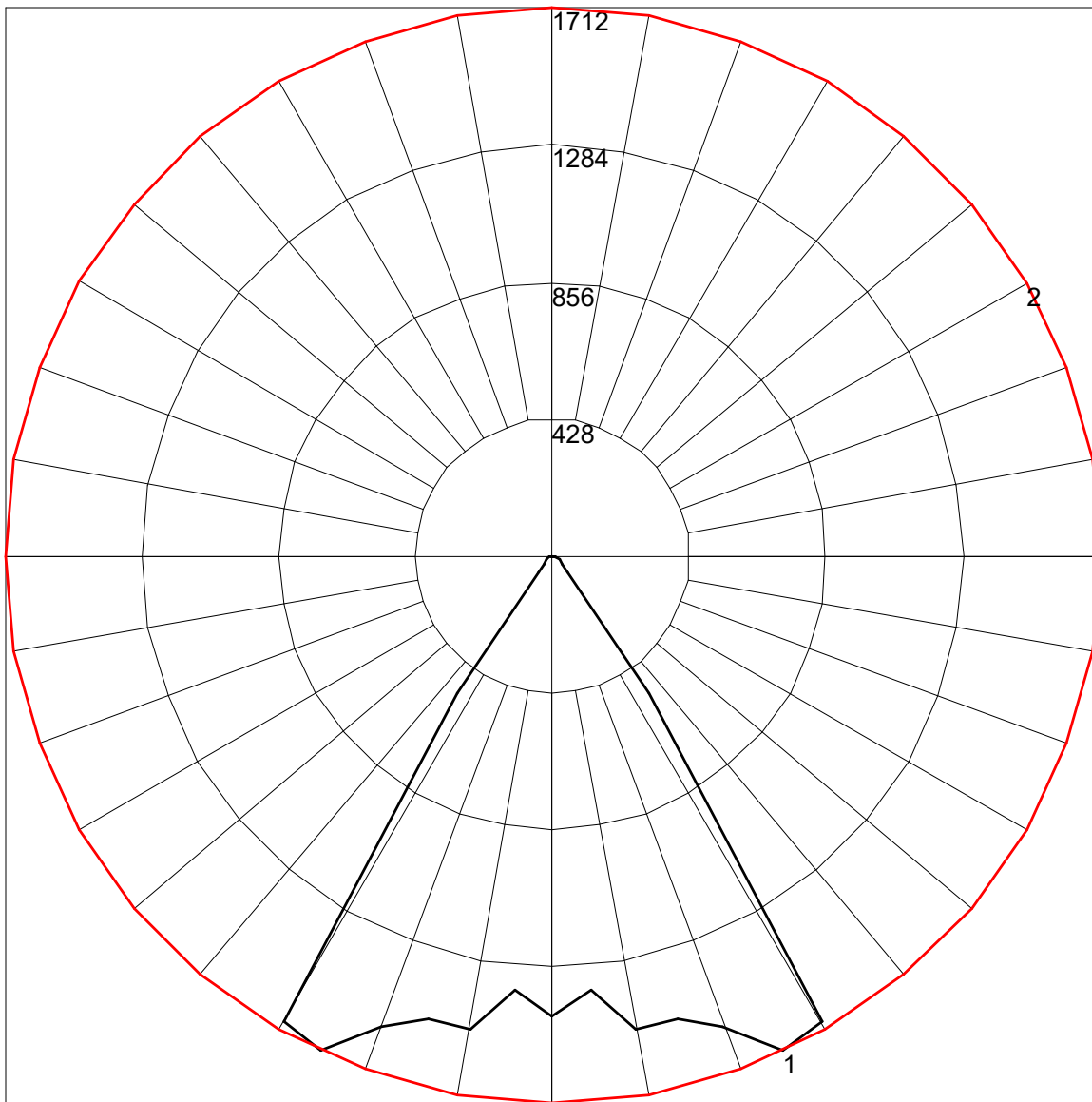
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	3H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
4H	2H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	3H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
8H	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12H	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

Maximum UGR = 2.1

POLAR GRAPH



Maximum Candela = 1711.555 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.)