



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20734.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 1-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] BRIDGELUX VERO13 LED 8"ROUND SURFACE CYLINDER

[MORE] WHITE REFL w/DIFFUSE ACRYLIC LENS & SEMI-SPEC CONE

[LUMCAT] 8CR-TL-L20-835-xxx-DIM-UNV-RW-CS-AD-xx

[LAMP CAT] BRIDGELUX 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	1202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.94
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	19425	19425	19425
55	12432	12432	12432
65	5532	5532	5532
75	226	226	226
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1001
5	978
10	923
15	838
20	735
25	620
30	508
35	400
40	315
45	235
50	172
55	122
60	77
65	40
70	11
75	1
80	0
85	0
90	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-RW-CS-AD-XX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.76	N.A.	27.10
0-30	610.63	N.A.	50.80
0-40	863.63	N.A.	71.80
0-60	1157.63	N.A.	96.30
0-80	1202.39	N.A.	100.00
0-90	1202.39	N.A.	100.00
10-90	1110.73	N.A.	92.40
20-40	537.87	N.A.	44.70
20-50	721.94	N.A.	60.00
40-70	335.36	N.A.	27.90
60-80	44.76	N.A.	3.70
70-80	3.40	N.A.	0.30
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	1202.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.66
10-20	234.10
20-30	284.86
30-40	253.00
40-50	184.08
50-60	109.92
60-70	41.36
70-80	3.40
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

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	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	56	52	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

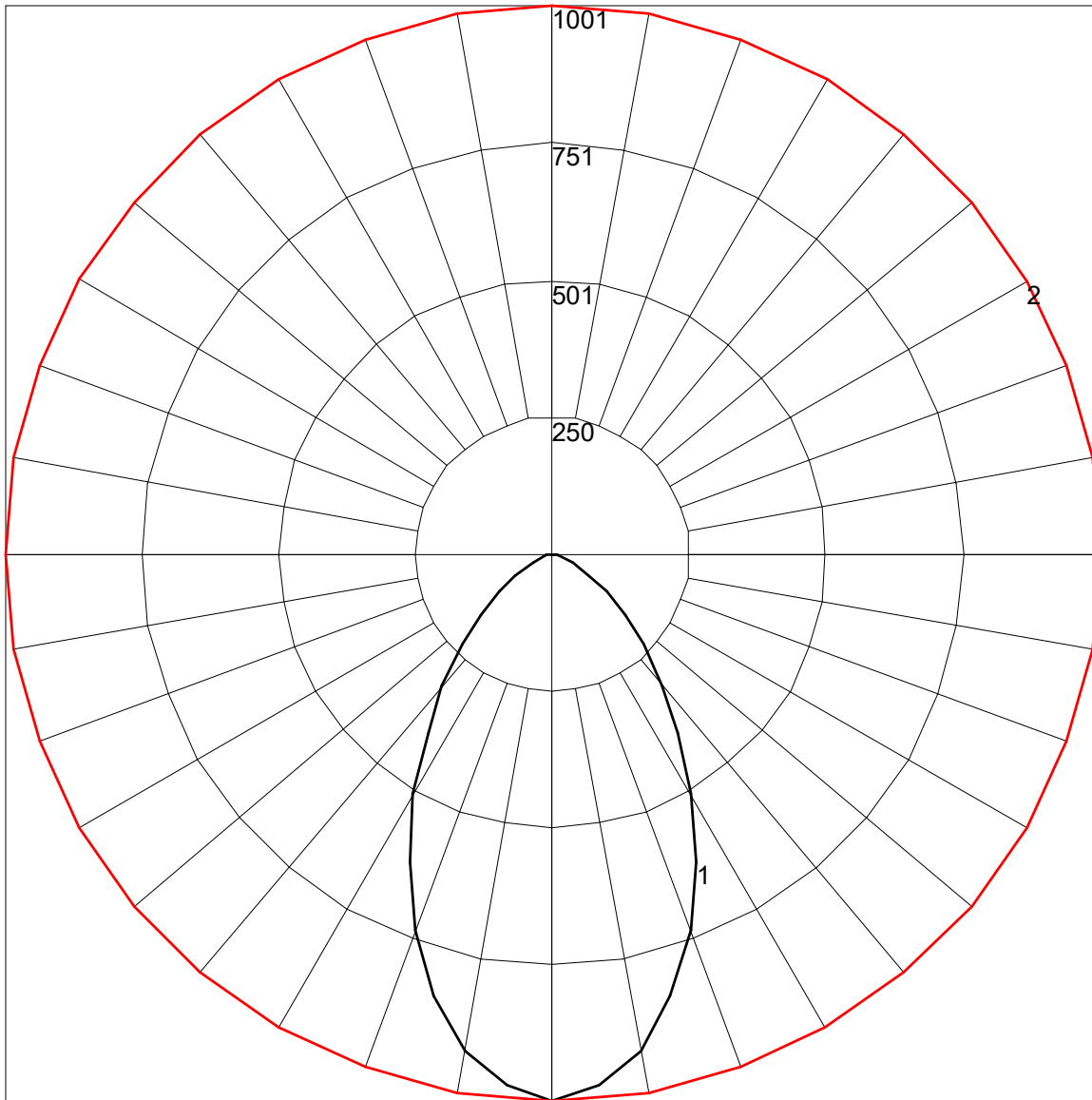
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UGR TABLE - CORRECTED

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	17.6	18.8	17.9	19.1	19.5	17.6	18.8	17.9	19.1	19.5
	3H	17.7	18.8	18.1	19.1	19.5	17.7	18.8	18.1	19.1	19.5
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.6	18.0	19.0	19.4
	6H	17.5	18.5	17.9	18.8	19.2	17.5	18.5	17.9	18.8	19.2
	8H	17.5	18.4	17.9	18.7	19.2	17.5	18.4	17.9	18.7	19.2
	12H	17.4	18.3	17.9	18.7	19.1	17.4	18.3	17.9	18.7	19.1
4H	2H	17.6	18.7	18.0	19.0	19.4	17.6	18.7	18.0	19.0	19.4
	3H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	4H	17.6	18.4	18.1	18.8	19.2	17.6	18.4	18.1	18.8	19.2
	6H	17.6	18.2	18.0	18.6	19.1	17.6	18.2	18.0	18.6	19.1
	8H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	12H	17.4	18.0	17.9	18.4	18.9	17.4	18.0	17.9	18.4	18.9
8H	4H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	6H	17.4	17.9	17.9	18.4	18.9	17.4	17.9	17.9	18.4	18.9
	8H	17.3	17.8	17.8	18.3	18.8	17.3	17.8	17.8	18.3	18.8
	12H	17.3	17.7	17.8	18.2	18.7	17.3	17.7	17.8	18.2	18.7
12H	4H	17.4	18.0	17.9	18.5	18.9	17.4	18.0	17.9	18.5	18.9
	6H	17.3	17.8	17.9	18.2	18.8	17.3	17.8	17.9	18.2	18.8
	8H	17.3	17.7	17.8	18.2	18.7	17.3	17.7	17.8	18.2	18.7

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1001 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.)