



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20733.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 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/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE

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

[LAMPCAT] BRIDGELUX V13 BXRE-35e2000

[_SEARCH_SOURCE] 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	1450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.80
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	16201	16201	16201
55	11108	11108	11108
65	4287	4287	4287
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2215
5	2206
10	1339
15	993
20	982
25	974
30	799
35	319
40	225
45	196
50	158
55	109
60	66
65	31
70	10
75	0
80	0
85	0
90	0

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Zone	Lumens	%Lamp	%Fixt
0-20	480.77	N.A.	33.20
0-30	910.29	N.A.	62.80
0-40	1165.69	N.A.	80.40
0-60	1413.67	N.A.	97.50
0-80	1450.25	N.A.	100.00
0-90	1450.25	N.A.	100.00
10-90	1270.58	N.A.	87.60
20-40	684.92	N.A.	47.20
20-50	834.40	N.A.	57.50
40-70	281.95	N.A.	19.40
60-80	36.58	N.A.	2.50
70-80	2.61	N.A.	0.20
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	1450.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.67
10-20	301.10
20-30	429.52
30-40	255.40
40-50	149.48
50-60	98.51
60-70	33.96
70-80	2.61
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	85	82	79	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	63	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	55	63	58	54	62	57	54	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

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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

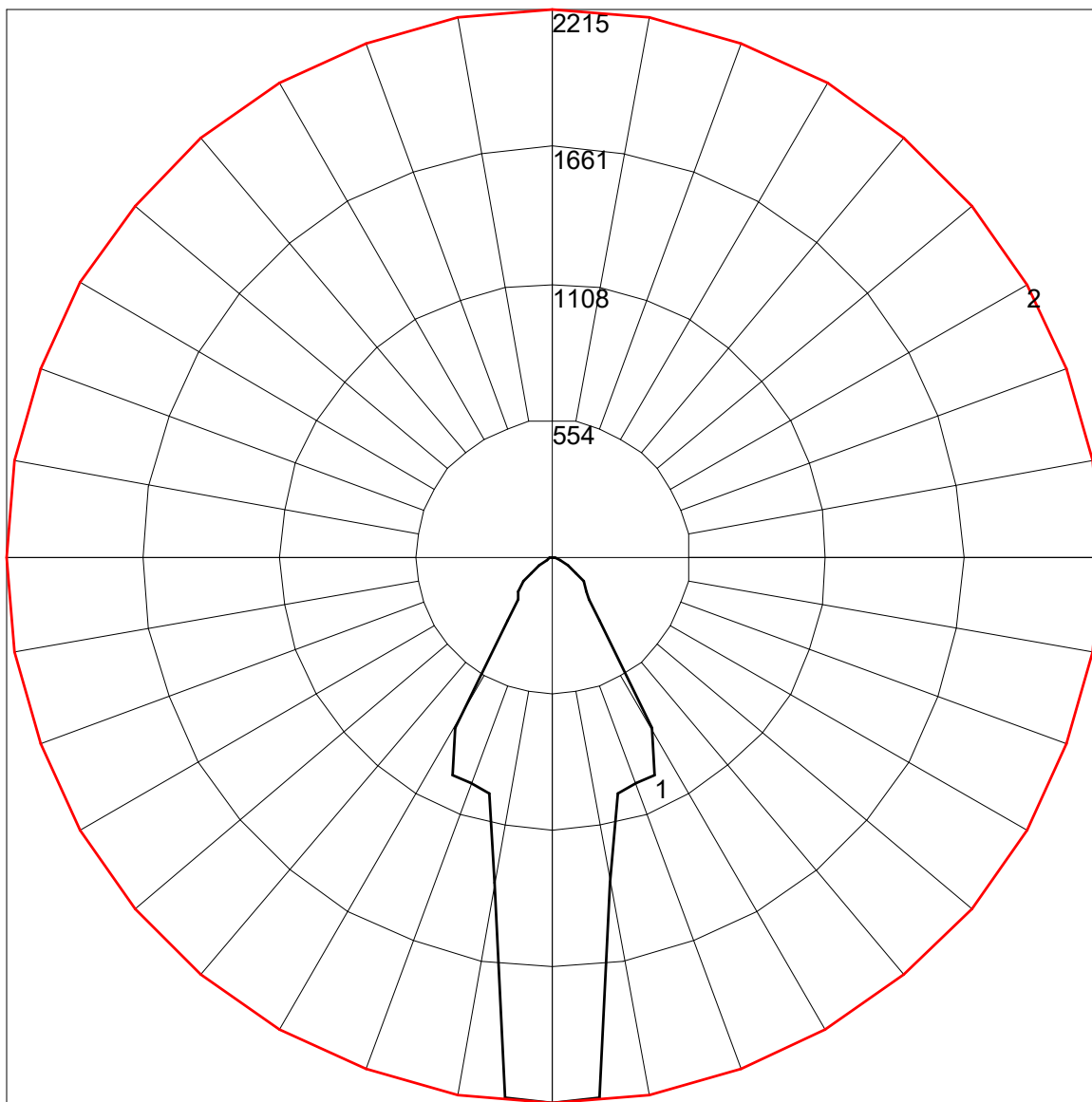
X=2H	Y=2H	16.2	17.4	16.6	17.7	18.0	16.2	17.4	16.6	17.7	18.0
	3H	16.3	17.3	16.6	17.6	18.0	16.3	17.3	16.6	17.6	18.0
	4H	16.2	17.1	16.6	17.5	17.8	16.2	17.1	16.6	17.5	17.8
	6H	16.1	16.9	16.5	17.3	17.7	16.1	16.9	16.5	17.3	17.7
	8H	16.0	16.8	16.5	17.2	17.6	16.0	16.8	16.5	17.2	17.6
	12H	16.0	16.7	16.4	17.1	17.6	16.0	16.7	16.4	17.1	17.6

UGR Viewed Endwise

4H	2H	16.2	17.1	16.6	17.5	17.9	16.2	17.1	16.6	17.5	17.9
	3H	16.2	17.0	16.7	17.4	17.8	16.2	17.0	16.7	17.4	17.8
	4H	16.1	16.8	16.6	17.2	17.7	16.1	16.8	16.6	17.2	17.7
	6H	16.0	16.6	16.5	17.1	17.5	16.0	16.6	16.5	17.1	17.5
	8H	16.0	16.5	16.4	17.0	17.4	16.0	16.5	16.4	17.0	17.4
	12H	15.9	16.4	16.4	16.9	17.3	15.9	16.4	16.4	16.9	17.3
8H	4H	16.0	16.5	16.4	17.0	17.4	16.0	16.5	16.4	17.0	17.4
	6H	15.9	16.3	16.4	16.8	17.3	15.9	16.3	16.4	16.8	17.3
	8H	15.8	16.2	16.3	16.7	17.2	15.8	16.2	16.3	16.7	17.2
	12H	15.8	16.1	16.3	16.6	17.2	15.8	16.1	16.3	16.6	17.2
12H	4H	15.9	16.4	16.4	16.9	17.4	15.9	16.4	16.4	16.9	17.4
	6H	15.8	16.2	16.3	16.7	17.2	15.8	16.2	16.3	16.7	17.2
	8H	15.8	16.1	16.3	16.6	17.2	15.8	16.1	16.3	16.6	17.2

Maximum UGR = 18.0

POLAR GRAPH



Maximum Candela = 2215 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.)