



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L10-835-XXX-DIM1-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-L10-835-xxx-DIM1-UNV-RW-CS-xx

[LAMPCAT] 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	716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	8.7
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	8000	8000	8000
55	5485	5485	5485
65	2117	2117	2117
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1093.752
5	1089.308
10	661.189
15	490.337
20	484.905
25	480.954
30	394.541
35	157.520
40	111.103
45	96.783
50	78.019
55	53.823
60	32.590
65	15.308
70	4.938
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	237.40	N.A.	33.20
0-30	449.50	N.A.	62.80
0-40	575.61	N.A.	80.40
0-60	698.06	N.A.	97.50
0-80	716.12	N.A.	100.00
0-90	716.12	N.A.	100.00
10-90	627.40	N.A.	87.60
20-40	338.21	N.A.	47.20
20-50	412.02	N.A.	57.50
40-70	139.22	N.A.	19.40
60-80	18.06	N.A.	2.50
70-80	1.29	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	716.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.72
10-20	148.68
20-30	212.10
30-40	126.11
40-50	73.81
50-60	48.64
60-70	16.77
70-80	1.29
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

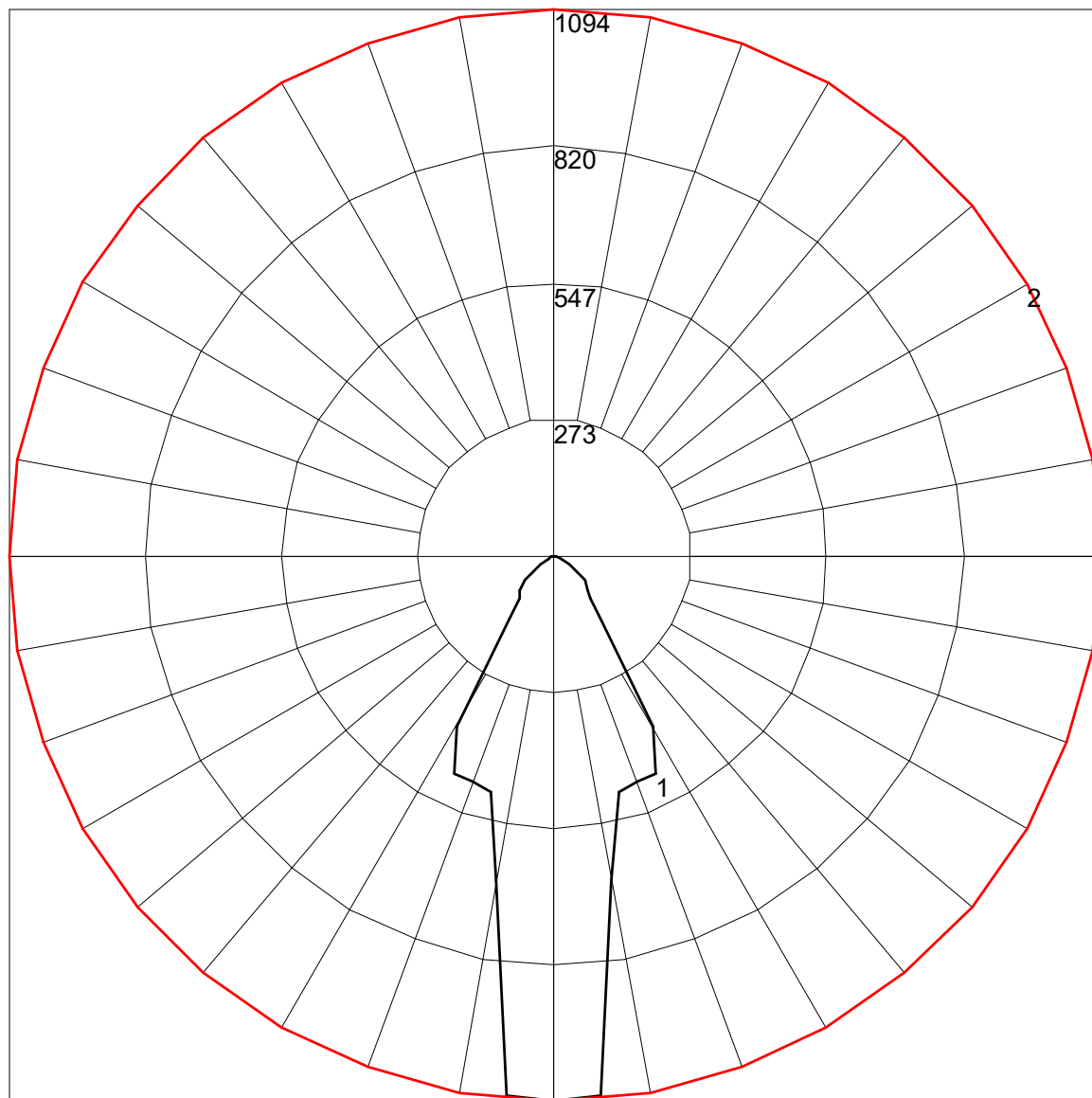
X=2H	Y=2H	13.7	14.9	14.1	15.2	15.5	13.7	14.9	14.1	15.2	15.5
	3H	13.8	14.8	14.1	15.1	15.5	13.8	14.8	14.1	15.1	15.5
	4H	13.7	14.6	14.1	15.0	15.3	13.7	14.6	14.1	15.0	15.3
	6H	13.6	14.4	14.0	14.8	15.2	13.6	14.4	14.0	14.8	15.2
	8H	13.5	14.3	14.0	14.7	15.1	13.5	14.3	14.0	14.7	15.1
	12H	13.5	14.2	13.9	14.6	15.1	13.5	14.2	13.9	14.6	15.1

UGR Viewed Endwise

4H	2H	13.7	14.6	14.1	15.0	15.4	13.7	14.6	14.1	15.0	15.4
	3H	13.7	14.5	14.2	14.9	15.3	13.7	14.5	14.2	14.9	15.3
	4H	13.6	14.3	14.1	14.7	15.2	13.6	14.3	14.1	14.7	15.2
	6H	13.5	14.1	14.0	14.6	15.0	13.5	14.1	14.0	14.6	15.0
	8H	13.5	14.0	13.9	14.5	14.9	13.5	14.0	13.9	14.5	14.9
	12H	13.4	13.9	13.9	14.4	14.8	13.4	13.9	13.9	14.4	14.8
8H	4H	13.5	14.0	13.9	14.5	14.9	13.5	14.0	13.9	14.5	14.9
	6H	13.4	13.8	13.9	14.3	14.8	13.4	13.8	13.9	14.3	14.8
	8H	13.3	13.7	13.8	14.2	14.7	13.3	13.7	13.8	14.2	14.7
	12H	13.3	13.6	13.8	14.1	14.7	13.3	13.6	13.8	14.1	14.7
12H	4H	13.4	13.9	13.9	14.4	14.9	13.4	13.9	13.9	14.4	14.9
	6H	13.3	13.7	13.8	14.2	14.7	13.3	13.7	13.8	14.2	14.7
	8H	13.3	13.6	13.8	14.1	14.7	13.3	13.6	13.8	14.1	14.7

Maximum UGR = 15.5

POLAR GRAPH



Maximum Candela = 1093.752 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.)