



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L15-835-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-L15-835-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	1090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	13.8
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	12179	12179	12179
55	8350	8350	8350
65	3223	3223	3223
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1665.069
5	1658.303
10	1006.559
15	746.462
20	738.193
25	732.179
30	600.628
35	239.800
40	169.138
45	147.338
50	118.772
55	81.938
60	49.614
65	23.303
70	7.517
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L15-835-XXX-DIM-UNV-RW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	361.40	N.A.	33.20
0-30	684.29	N.A.	62.80
0-40	876.27	N.A.	80.40
0-60	1062.69	N.A.	97.50
0-80	1090.19	N.A.	100.00
0-90	1090.19	N.A.	100.00
10-90	955.13	N.A.	87.60
20-40	514.87	N.A.	47.20
20-50	627.24	N.A.	57.50
40-70	211.95	N.A.	19.40
60-80	27.49	N.A.	2.50
70-80	1.96	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	1090.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.06
10-20	226.34
20-30	322.88
30-40	191.99
40-50	112.37
50-60	74.05
60-70	25.53
70-80	1.96
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

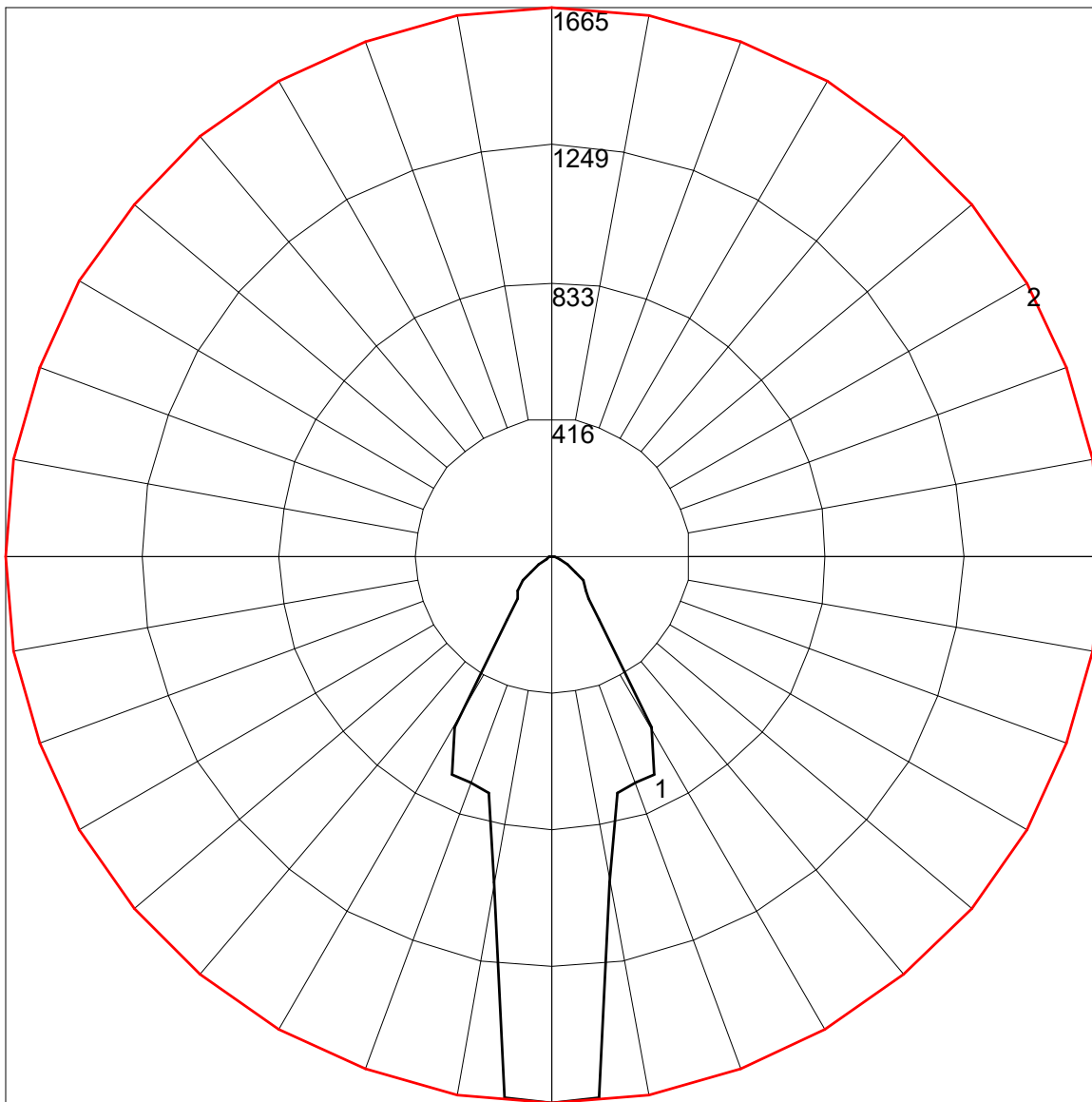
X=2H	Y=2H	15.2	16.4	15.6	16.7	17.0	15.2	16.4	15.6	16.7	17.0
	3H	15.3	16.3	15.6	16.6	17.0	15.3	16.3	15.6	16.6	17.0
	4H	15.2	16.1	15.6	16.5	16.8	15.2	16.1	15.6	16.5	16.8
	6H	15.1	15.9	15.5	16.3	16.7	15.1	15.9	15.5	16.3	16.7
	8H	15.0	15.8	15.5	16.2	16.6	15.0	15.8	15.5	16.2	16.6
	12H	15.0	15.7	15.4	16.1	16.6	15.0	15.7	15.4	16.1	16.6

### UGR Viewed Endwise

4H	2H	15.2	16.1	15.6	16.5	16.9	15.2	16.1	15.6	16.5	16.9
	3H	15.2	16.0	15.7	16.4	16.8	15.2	16.0	15.7	16.4	16.8
	4H	15.1	15.8	15.6	16.2	16.7	15.1	15.8	15.6	16.2	16.7
	6H	15.0	15.6	15.5	16.1	16.5	15.0	15.6	15.5	16.1	16.5
	8H	15.0	15.5	15.4	16.0	16.4	15.0	15.5	15.4	16.0	16.4
	12H	14.9	15.4	15.4	15.9	16.3	14.9	15.4	15.4	15.9	16.3
8H	4H	15.0	15.5	15.4	16.0	16.4	15.0	15.5	15.4	16.0	16.4
	6H	14.9	15.3	15.4	15.8	16.3	14.9	15.3	15.4	15.8	16.3
	8H	14.8	15.2	15.3	15.7	16.2	14.8	15.2	15.3	15.7	16.2
	12H	14.8	15.1	15.3	15.6	16.2	14.8	15.1	15.3	15.6	16.2
12H	4H	14.9	15.4	15.4	15.9	16.4	14.9	15.4	15.4	15.9	16.4
	6H	14.8	15.2	15.3	15.7	16.2	14.8	15.2	15.3	15.7	16.2
	8H	14.8	15.1	15.3	15.6	16.2	14.8	15.1	15.3	15.6	16.2

Maximum UGR = 17.0

POLAR GRAPH



Maximum Candela = 1665.069 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.)