



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L10-830-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 DOWNLIGHT

[MORE] WHITE REFL w/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE

[LUMCAT] 8CR-TL-L10-830-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	687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	7676	7676	7676
55	5263	5263	5263
65	2031	2031	2031
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1049.452
5	1045.188
10	634.409
15	470.477
20	465.265
25	461.474
30	378.561
35	151.140
40	106.603
45	92.863
50	74.859
55	51.643
60	31.270
65	14.688
70	4.738
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L10-830-XXX-DIM-UNV-RW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	227.78	N.A.	33.20
0-30	431.29	N.A.	62.80
0-40	552.29	N.A.	80.40
0-60	669.79	N.A.	97.50
0-80	687.12	N.A.	100.00
0-90	687.12	N.A.	100.00
10-90	601.99	N.A.	87.60
20-40	324.51	N.A.	47.20
20-50	395.33	N.A.	57.50
40-70	133.59	N.A.	19.40
60-80	17.33	N.A.	2.50
70-80	1.24	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	687.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.13
10-20	142.66
20-30	203.50
30-40	121.00
40-50	70.82
50-60	46.67
60-70	16.09
70-80	1.24
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

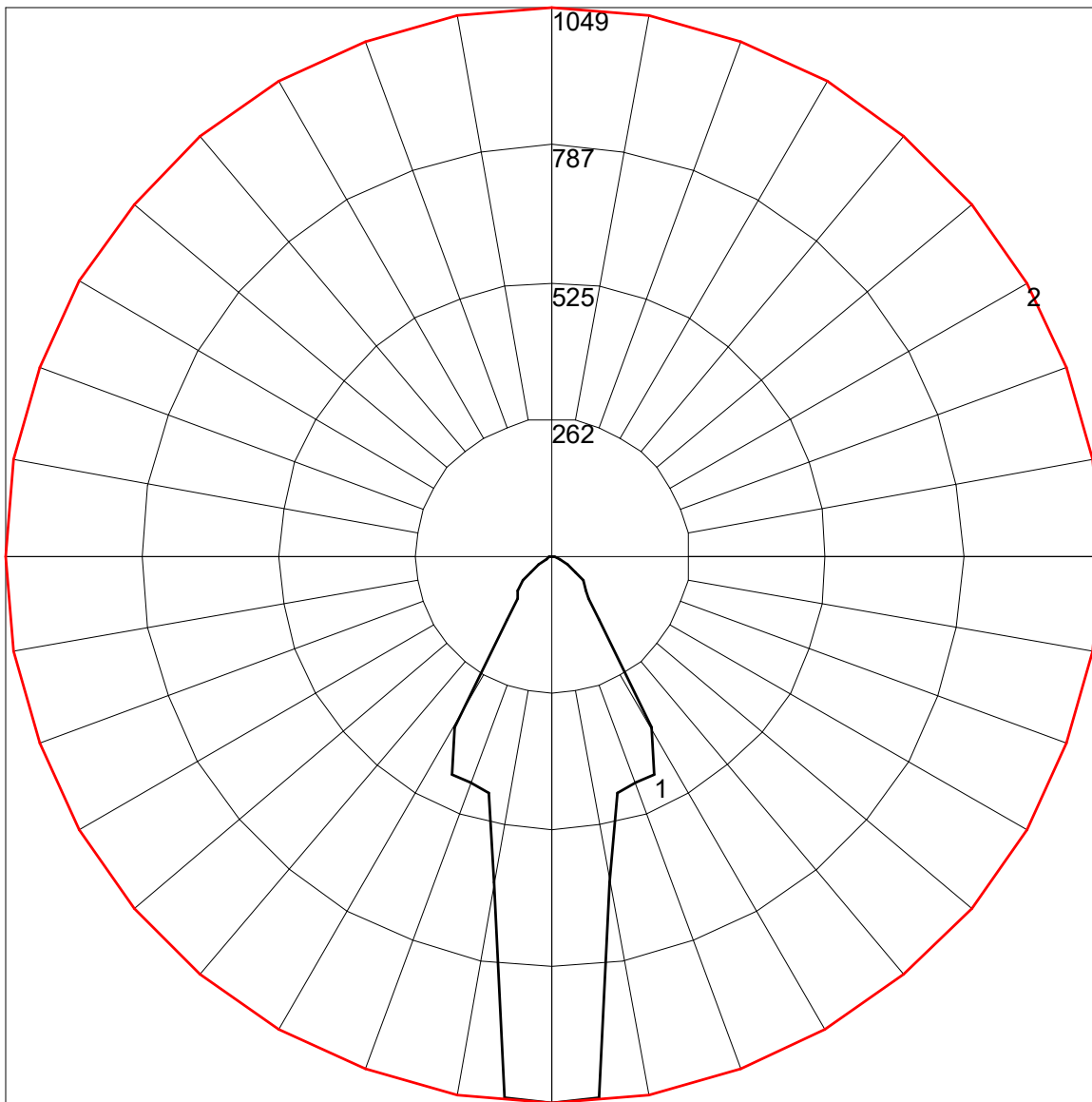
X=2H	Y=2H	13.6	14.8	14.0	15.1	15.4	13.6	14.8	14.0	15.1	15.4
	3H	13.7	14.7	14.0	15.0	15.4	13.7	14.7	14.0	15.0	15.4
	4H	13.6	14.5	14.0	14.9	15.2	13.6	14.5	14.0	14.9	15.2
	6H	13.5	14.3	13.9	14.7	15.1	13.5	14.3	13.9	14.7	15.1
	8H	13.4	14.2	13.9	14.6	15.0	13.4	14.2	13.9	14.6	15.0
	12H	13.4	14.1	13.8	14.5	15.0	13.4	14.1	13.8	14.5	15.0

### UGR Viewed Endwise

4H	2H	13.6	14.5	14.0	14.9	15.3	13.6	14.5	14.0	14.9	15.3
	3H	13.6	14.4	14.1	14.8	15.2	13.6	14.4	14.1	14.8	15.2
	4H	13.5	14.2	14.0	14.6	15.1	13.5	14.2	14.0	14.6	15.1
	6H	13.4	14.0	13.9	14.5	14.9	13.4	14.0	13.9	14.5	14.9
	8H	13.4	13.9	13.8	14.4	14.8	13.4	13.9	13.8	14.4	14.8
	12H	13.3	13.8	13.8	14.3	14.7	13.3	13.8	13.8	14.3	14.7
8H	4H	13.4	13.9	13.8	14.4	14.8	13.4	13.9	13.8	14.4	14.8
	6H	13.3	13.7	13.8	14.2	14.7	13.3	13.7	13.8	14.2	14.7
	8H	13.2	13.6	13.7	14.1	14.6	13.2	13.6	13.7	14.1	14.6
	12H	13.2	13.5	13.7	14.0	14.6	13.2	13.5	13.7	14.0	14.6
12H	4H	13.3	13.8	13.8	14.3	14.8	13.3	13.8	13.8	14.3	14.8
	6H	13.2	13.6	13.7	14.1	14.6	13.2	13.6	13.7	14.1	14.6
	8H	13.2	13.5	13.7	14.0	14.6	13.2	13.5	13.7	14.0	14.6

Maximum UGR = 15.4

POLAR GRAPH



Maximum Candela = 1049.452 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.)