



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L60-835-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] 2-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-L60-835-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	4265
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	54
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	47643	47643	47643
55	32664	32664	32664
65	12608	12608	12608
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	6513.628
5	6487.162
10	3937.584
15	2920.105
20	2887.758
25	2864.232
30	2349.611
35	938.080
40	661.655
45	576.375
50	464.629
55	320.535
60	194.086
65	91.161
70	29.407
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L60-835-XXX-DIM-UNV-RW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1413.79	N.A.	33.20
0-30	2676.88	N.A.	62.80
0-40	3427.92	N.A.	80.40
0-60	4157.18	N.A.	97.50
0-80	4264.74	N.A.	100.00
0-90	4264.74	N.A.	100.00
10-90	3736.39	N.A.	87.60
20-40	2014.13	N.A.	47.20
20-50	2453.71	N.A.	57.50
40-70	829.13	N.A.	19.40
60-80	107.56	N.A.	2.50
70-80	7.69	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	4264.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	528.35
10-20	885.44
20-30	1263.09
30-40	751.04
40-50	439.58
50-60	289.67
60-70	99.87
70-80	7.69
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	84	81	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	72	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

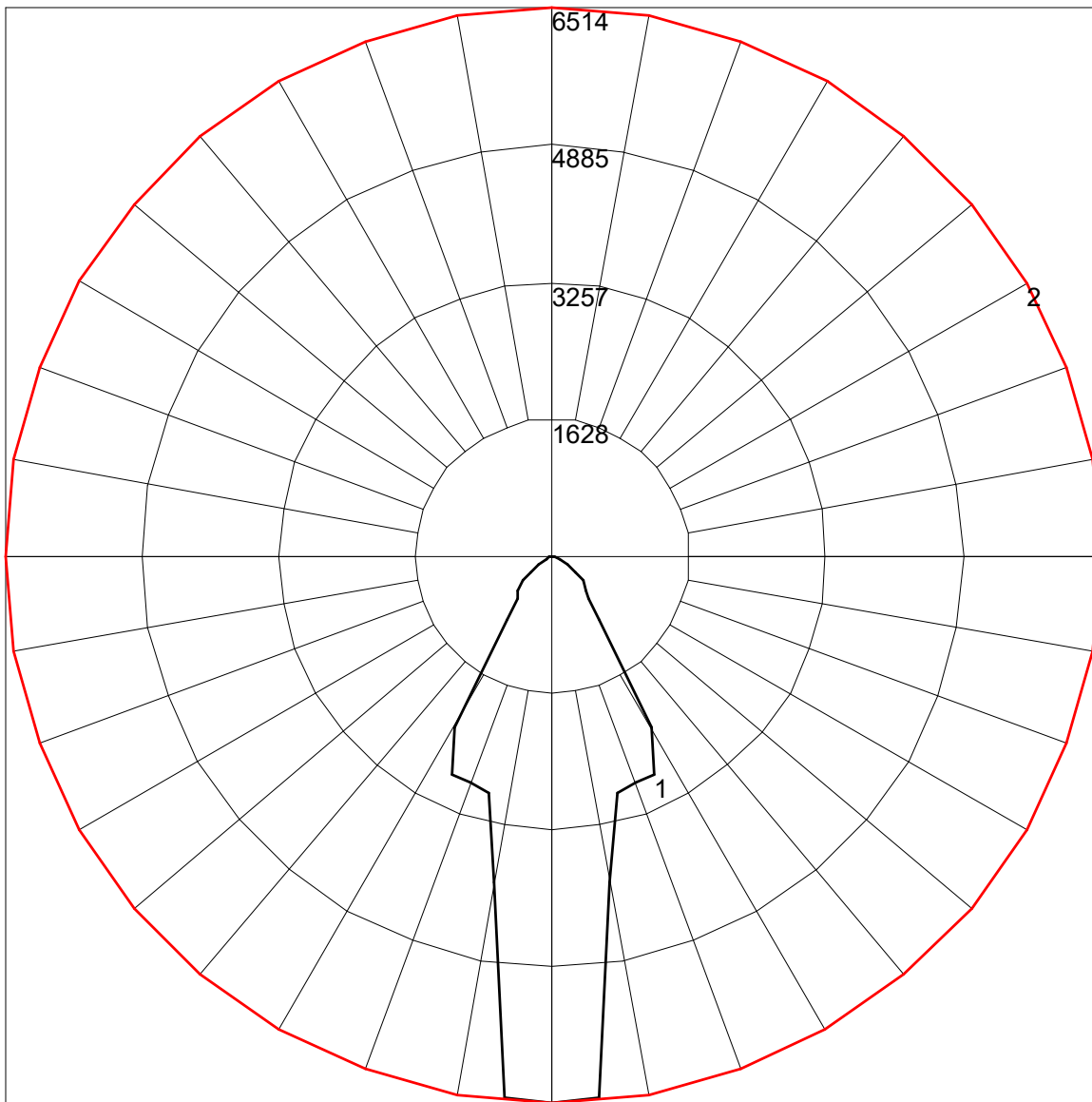
X=2H	Y=2H	19.9	21.1	20.3	21.4	21.7	19.9	21.1	20.3	21.4	21.7
	3H	20.0	21.0	20.3	21.3	21.7	20.0	21.0	20.3	21.3	21.7
	4H	19.9	20.8	20.3	21.2	21.5	19.9	20.8	20.3	21.2	21.5
	6H	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
	8H	19.7	20.5	20.2	20.9	21.3	19.7	20.5	20.2	20.9	21.3
	12H	19.7	20.4	20.1	20.8	21.3	19.7	20.4	20.1	20.8	21.3

### UGR Viewed Endwise

4H	2H	19.9	20.8	20.3	21.2	21.6	19.9	20.8	20.3	21.2	21.6
	3H	19.9	20.7	20.4	21.1	21.5	19.9	20.7	20.4	21.1	21.5
	4H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	6H	19.7	20.3	20.2	20.8	21.2	19.7	20.3	20.2	20.8	21.2
	8H	19.7	20.2	20.1	20.7	21.1	19.7	20.2	20.1	20.7	21.1
	12H	19.6	20.1	20.1	20.6	21.0	19.6	20.1	20.1	20.6	21.0
8H	4H	19.7	20.2	20.1	20.7	21.1	19.7	20.2	20.1	20.7	21.1
	6H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
	8H	19.5	19.9	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.9
	12H	19.5	19.8	20.0	20.3	20.9	19.5	19.8	20.0	20.3	20.9
12H	4H	19.6	20.1	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.1
	6H	19.5	19.9	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.9
	8H	19.5	19.8	20.0	20.3	20.9	19.5	19.8	20.0	20.3	20.9

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 6513.628 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.)