



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-OW-CS-TD-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20686.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC

[ISSUEDATE] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1 BRIDGELUX V13 LED 8" ROUND SURFACE CYLINDER

[MORE] OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS(WIDE)

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

[LAMPCAT] 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	1491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.08
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	18232	18232	18232
55	1996	1996	1996
65	428	428	428
75	0	0	0
85	0	0	0

CANDELA TABULATION

	<u>0</u>
0	979.195
5	1012.507
10	1085.190
15	1118.503
20	1128.598
25	1099.323
30	937.806
35	571.365
40	347.261
45	216.029
50	114.071
55	19.180
60	6.057
65	3.028
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	414.77	N.A.	27.80
0-30	906.23	N.A.	60.80
0-40	1281.74	N.A.	86.00
0-60	1487.54	N.A.	99.80
0-80	1490.52	N.A.	100.00
0-90	1490.52	N.A.	100.00
10-90	1391.67	N.A.	93.40
20-40	866.97	N.A.	58.20
20-50	1037.97	N.A.	69.60
40-70	208.78	N.A.	14.00
60-80	2.98	N.A.	0.20
70-80	0.00	N.A.	0.00
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	1490.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	98.85
10-20	315.91
20-30	491.47
30-40	375.50
40-50	171.00
50-60	34.81
60-70	2.98
70-80	0.00
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	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	80	74	69	88	79	74	69	78	72	68	76	71	68	74	70	67	66
6	84	75	68	64	83	74	68	63	72	67	63	71	66	62	70	65	62	60
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	75	65	58	54	74	64	58	54	63	58	53	62	57	53	61	56	53	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	49	57	53	49	48
10	67	57	51	46	66	56	50	46	56	50	46	55	50	46	54	49	46	44

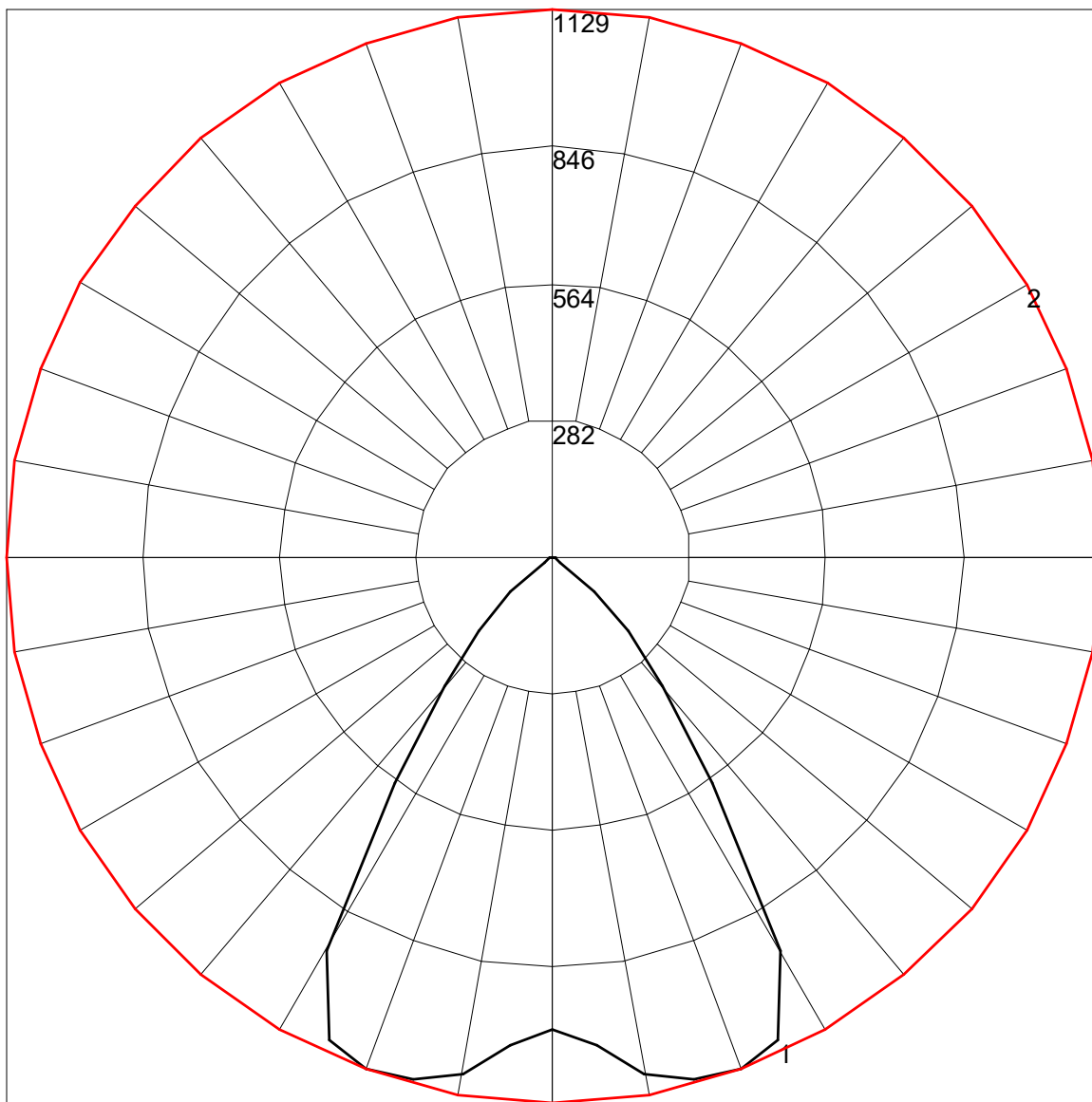
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	2.7	3.8	3.0	4.1	4.4	2.7	3.8	3.0	4.1	4.4
	3H	2.5	3.5	2.9	3.8	4.2	2.5	3.5	2.9	3.8	4.2
	4H	2.4	3.3	2.8	3.7	4.0	2.4	3.3	2.8	3.7	4.0
	6H	2.3	3.1	2.8	3.5	3.9	2.3	3.1	2.8	3.5	3.9
	8H	2.3	3.0	2.7	3.4	3.8	2.3	3.0	2.7	3.4	3.8
	12H	2.2	2.9	2.7	3.3	3.8	2.2	2.9	2.7	3.3	3.8
4H	2H	2.5	3.4	2.9	3.7	4.1	2.5	3.4	2.9	3.7	4.1
	3H	2.4	3.1	2.8	3.5	3.9	2.4	3.1	2.8	3.5	3.9
	4H	2.2	2.9	2.7	3.3	3.7	2.2	2.9	2.7	3.3	3.7
	6H	2.1	2.7	2.6	3.1	3.6	2.1	2.7	2.6	3.1	3.6
	8H	2.1	2.6	2.5	3.0	3.5	2.1	2.6	2.5	3.0	3.5
	12H	2.0	2.4	2.5	2.9	3.4	2.0	2.4	2.5	2.9	3.4
8H	4H	2.1	2.6	2.5	3.0	3.5	2.1	2.6	2.5	3.0	3.5
	6H	1.9	2.3	2.4	2.8	3.3	1.9	2.3	2.4	2.8	3.3
	8H	1.9	2.2	2.4	2.7	3.2	1.9	2.2	2.4	2.7	3.2
	12H	1.8	2.1	2.3	2.6	3.2	1.8	2.1	2.3	2.6	3.2
12H	4H	2.0	2.4	2.5	2.9	3.4	2.0	2.4	2.5	2.9	3.4
	6H	1.9	2.2	2.4	2.7	3.2	1.9	2.2	2.4	2.7	3.2
	8H	1.8	2.1	2.3	2.6	3.2	1.8	2.1	2.3	2.6	3.2

Maximum UGR = 4.4

POLAR GRAPH



Maximum Candela = 1128.598 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)