



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L20-940-XXX-DIM-UNV-OW-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, 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 ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 8CR-TL-L20-940-xxx-DIM-UNV-OW-CS-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	1670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	2839	2839	2839
55	989	989	989
65	207	207	207
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1332.175
5	1258.077
10	1384.761
15	1382.371
20	1443.721
25	1579.170
30	1551.283
35	481.240
40	66.131
45	36.651
50	21.512
55	10.358
60	5.577
65	1.594
70	0.000
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	522.56	N.A.	31.30
0-30	1235.77	N.A.	74.00
0-40	1626.4	N.A.	97.40
0-60	1667.79	N.A.	99.90
0-80	1669.94	N.A.	100.00
0-90	1669.94	N.A.	100.00
10-90	1544.43	N.A.	92.50
20-40	1103.83	N.A.	66.10
20-50	1134.62	N.A.	67.90
40-70	43.54	N.A.	2.60
60-80	2.15	N.A.	0.10
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	1669.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.51
10-20	397.05
20-30	713.21
30-40	390.63
40-50	30.78
50-60	10.61
60-70	2.15
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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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

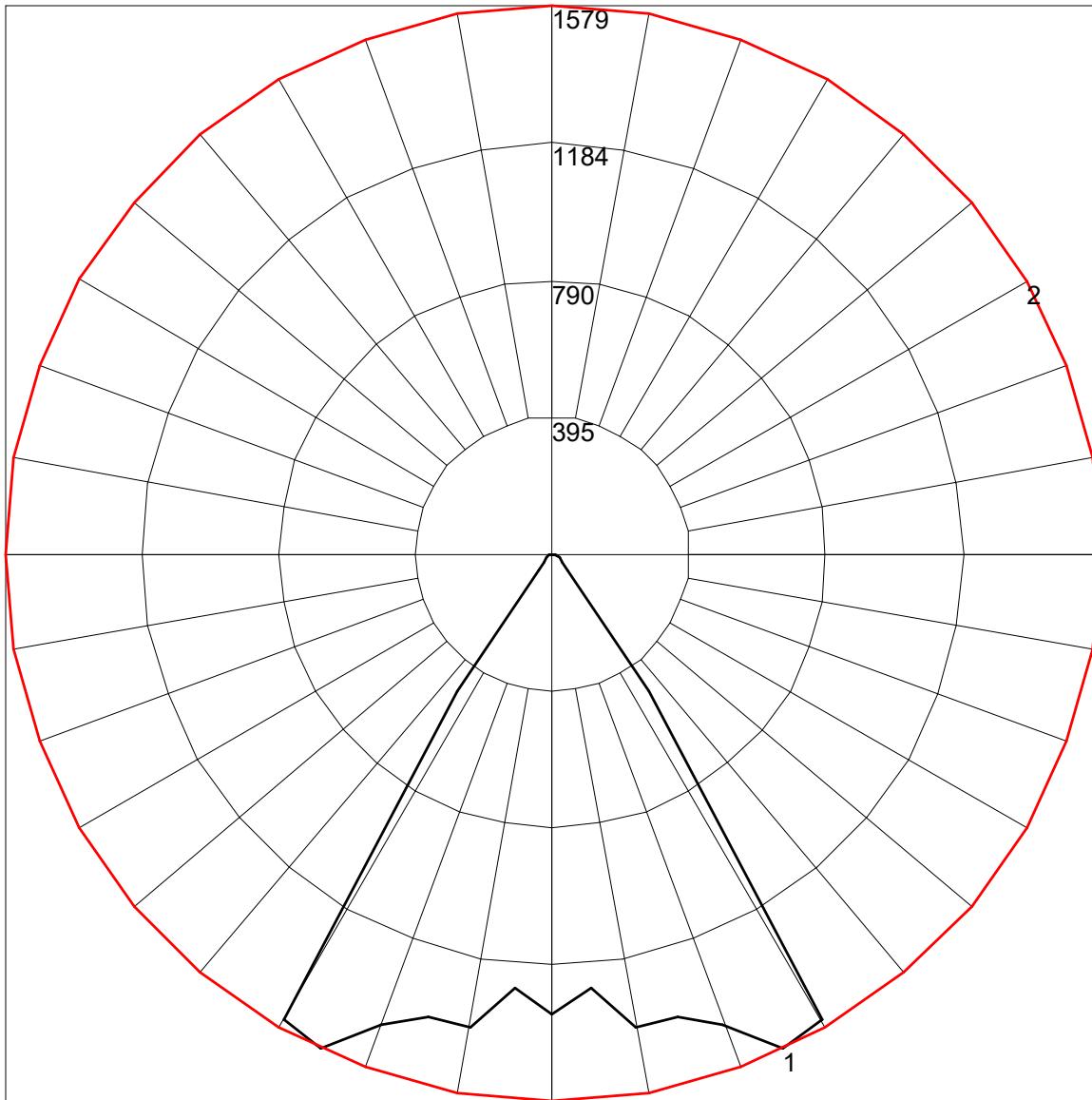
X=2H	Y=2H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

UGR Viewed Endwise

4H	2H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
8H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
12H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

Maximum UGR = 1.8

POLAR GRAPH



Maximum Candela = 1579.17 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)