



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-935-DIM-UNV-RW-OF-CS_.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] 02-17-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] BRIDGELUX VERO13 LED 6"RND RECESSED CAST HOUSING DOWNLIGHT
 [MORE] REFL w/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE
 [LUMCAT] 6DR-TL-L20-935-DIM-UNV-RW-OF-CS
 [LAMPCAT] BRIDGELUX V13 BXRE-35e2000
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1161
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	19.5
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	12975	12975	12975
55	8895	8895	8895
65	3434	3434	3434
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1773.836
5	1766.629
10	1072.310
15	795.223
20	786.414
25	780.007
30	639.862
35	255.464
40	180.187
45	156.962
50	126.531
55	87.290
60	52.855
65	24.826
70	8.008
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	385.01	N.A.	33.20
0-30	728.99	N.A.	62.80
0-40	933.52	N.A.	80.40
0-60	1132.11	N.A.	97.50
0-80	1161.4	N.A.	100.00
0-90	1161.4	N.A.	100.00
10-90	1017.52	N.A.	87.60
20-40	548.50	N.A.	47.20
20-50	668.21	N.A.	57.50
40-70	225.79	N.A.	19.40
60-80	29.29	N.A.	2.50
70-80	2.09	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	1161.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.88
10-20	241.13
20-30	343.97
30-40	204.53
40-50	119.71
50-60	78.89
60-70	27.20
70-80	2.09
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	82	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	78	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	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	56	51	71	61	55	51	60	55	51	60	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

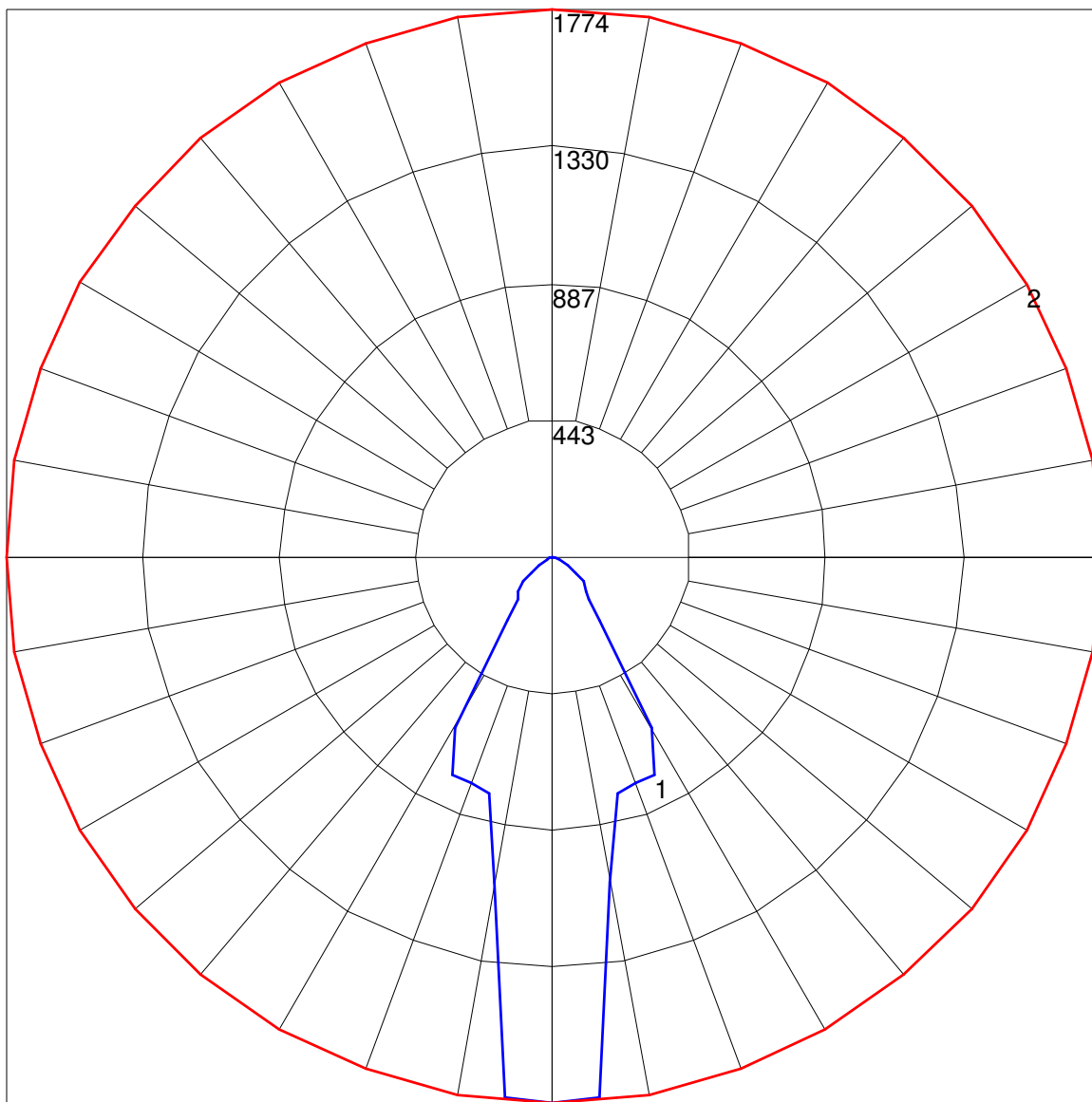
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.6	15.8	16.9	17.2	15.4	16.6	15.8	16.9	17.2
	3H	15.5	16.5	15.8	16.8	17.2	15.5	16.5	15.8	16.8	17.2
	4H	15.4	16.3	15.8	16.7	17.1	15.4	16.3	15.8	16.7	17.1
	6H	15.3	16.1	15.7	16.5	16.9	15.3	16.1	15.7	16.5	16.9
	8H	15.2	16.0	15.7	16.4	16.8	15.2	16.0	15.7	16.4	16.8
	12H	15.2	15.9	15.6	16.3	16.8	15.2	15.9	15.6	16.3	16.8
4H	2H	15.4	16.3	15.8	16.7	17.1	15.4	16.3	15.8	16.7	17.1
	3H	15.4	16.2	15.9	16.6	17.0	15.4	16.2	15.9	16.6	17.0
	4H	15.3	16.0	15.8	16.4	16.9	15.3	16.0	15.8	16.4	16.9
	6H	15.2	15.8	15.7	16.3	16.7	15.2	15.8	15.7	16.3	16.7
	8H	15.2	15.7	15.6	16.2	16.6	15.2	15.7	15.6	16.2	16.6
	12H	15.1	15.6	15.6	16.1	16.6	15.1	15.6	15.6	16.1	16.6
8H	4H	15.2	15.7	15.6	16.2	16.6	15.2	15.7	15.6	16.2	16.6
	6H	15.1	15.5	15.6	16.0	16.5	15.1	15.5	15.6	16.0	16.5
	8H	15.0	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
	12H	15.0	15.3	15.5	15.8	16.4	15.0	15.3	15.5	15.8	16.4
12H	4H	15.1	15.6	15.6	16.1	16.6	15.1	15.6	15.6	16.1	16.6
	6H	15.0	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
	8H	15.0	15.3	15.5	15.8	16.4	15.0	15.3	15.5	15.8	16.4

Maximum UGR = 17.2

POLAR GRAPH



Maximum Candela = 1773.836 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)