

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-935-DIM-UNV-RW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20733.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 08-31-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] LED 6"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] WHITE REFL w/MICRO-PRISM GLASS LENS

[LUMCAT] 6DR-TL-L10-935-DIM-UNV-RW-OF-WH

[_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	838
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	9.38
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	9363	9363	9363
55	6419	6419	6419
65	2478	2478	2478
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1280.117
5	1274.916
10	773.850
15	573.885
20	567.528
25	562.905
30	461.767
35	184.360
40	130.034
45	113.274
50	91.313
55	62.994
60	38.143
65	17.916
70	5.779
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	277.85	N.A.	33.20
0-30	526.09	N.A.	62.80
0-40	673.69	N.A.	80.40
0-60	817.01	N.A.	97.50
0-80	838.14	N.A.	100.00
0-90	838.14	N.A.	100.00
10-90	734.31	N.A.	87.60
20-40	395.84	N.A.	47.20
20-50	482.23	N.A.	57.50
40-70	162.95	N.A.	19.40
60-80	21.14	N.A.	2.50
70-80	1.51	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	838.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.84
10-20	174.02
20-30	248.23
30-40	147.60
40-50	86.39
50-60	56.93
60-70	19.63
70-80	1.51
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

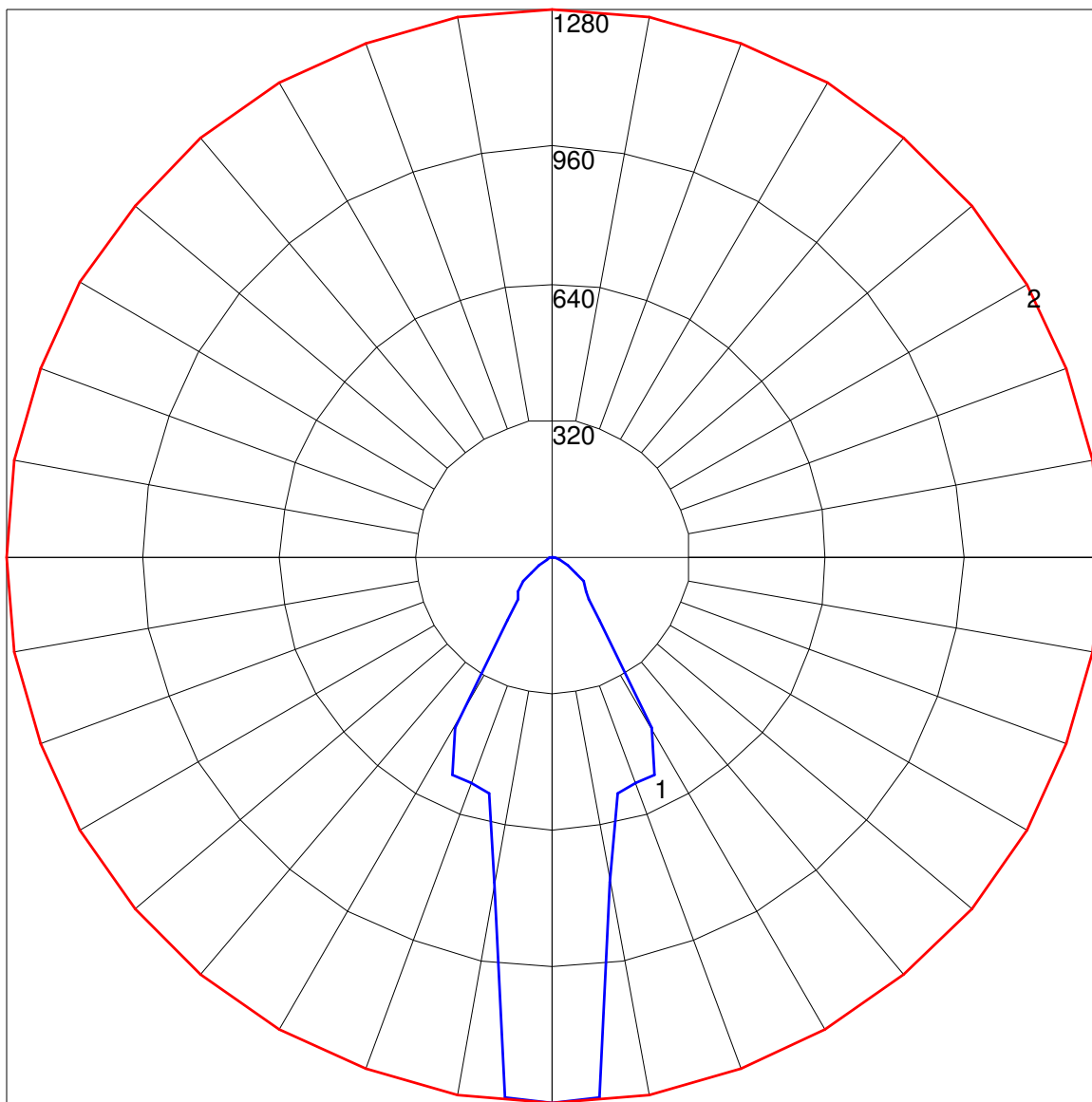
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.3	15.5	14.7	15.8	16.1	14.3	15.5	14.7	15.8	16.1
	3H	14.4	15.4	14.7	15.7	16.1	14.4	15.4	14.7	15.7	16.1
	4H	14.3	15.2	14.7	15.6	15.9	14.3	15.2	14.7	15.6	15.9
	6H	14.2	15.0	14.6	15.4	15.8	14.2	15.0	14.6	15.4	15.8
	8H	14.1	14.9	14.6	15.3	15.7	14.1	14.9	14.6	15.3	15.7
	12H	14.1	14.8	14.5	15.2	15.7	14.1	14.8	14.5	15.2	15.7
4H	2H	14.3	15.2	14.7	15.6	16.0	14.3	15.2	14.7	15.6	16.0
	3H	14.3	15.1	14.8	15.5	15.9	14.3	15.1	14.8	15.5	15.9
	4H	14.2	14.9	14.7	15.3	15.8	14.2	14.9	14.7	15.3	15.8
	6H	14.1	14.7	14.6	15.2	15.6	14.1	14.7	14.6	15.2	15.6
	8H	14.1	14.6	14.5	15.1	15.5	14.1	14.6	14.5	15.1	15.5
	12H	14.0	14.5	14.5	15.0	15.4	14.0	14.5	14.5	15.0	15.4
8H	4H	14.1	14.6	14.5	15.1	15.5	14.1	14.6	14.5	15.1	15.5
	6H	14.0	14.4	14.5	14.9	15.4	14.0	14.4	14.5	14.9	15.4
	8H	13.9	14.3	14.4	14.8	15.3	13.9	14.3	14.4	14.8	15.3
	12H	13.9	14.2	14.4	14.7	15.3	13.9	14.2	14.4	14.7	15.3
12H	4H	14.0	14.5	14.5	15.0	15.5	14.0	14.5	14.5	15.0	15.5
	6H	13.9	14.3	14.4	14.8	15.3	13.9	14.3	14.4	14.8	15.3
	8H	13.9	14.2	14.4	14.7	15.3	13.9	14.2	14.4	14.7	15.3

Maximum UGR = 16.1

POLAR GRAPH



Maximum Candela = 1280.117 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.)