

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-935-EM7W-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

[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-EM7W-DIM-UNV-RW-OF-CS

[_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	625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	7
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	6988	6988	6988
55	4791	4791	4791
65	1849	1849	1849
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	955.311
5	951.430
10	577.500
15	428.273
20	423.529
25	420.078
30	344.602
35	137.582
40	97.041
45	84.533
50	68.144
55	47.011
60	28.465
65	13.370
70	4.313
75	0.000
80	0.000
85	0.000
90	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	207.35	N.A.	33.20
0-30	392.60	N.A.	62.80
0-40	502.75	N.A.	80.40
0-60	609.71	N.A.	97.50
0-80	625.48	N.A.	100.00
0-90	625.48	N.A.	100.00
10-90	547.99	N.A.	87.60
20-40	295.40	N.A.	47.20
20-50	359.87	N.A.	57.50
40-70	121.60	N.A.	19.40
60-80	15.77	N.A.	2.50
70-80	1.13	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	625.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.49
10-20	129.86
20-30	185.25
30-40	110.15
40-50	64.47
50-60	42.48
60-70	14.65
70-80	1.13
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	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	90	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	64	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	55	51	59	54	51	49
10	69	59	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

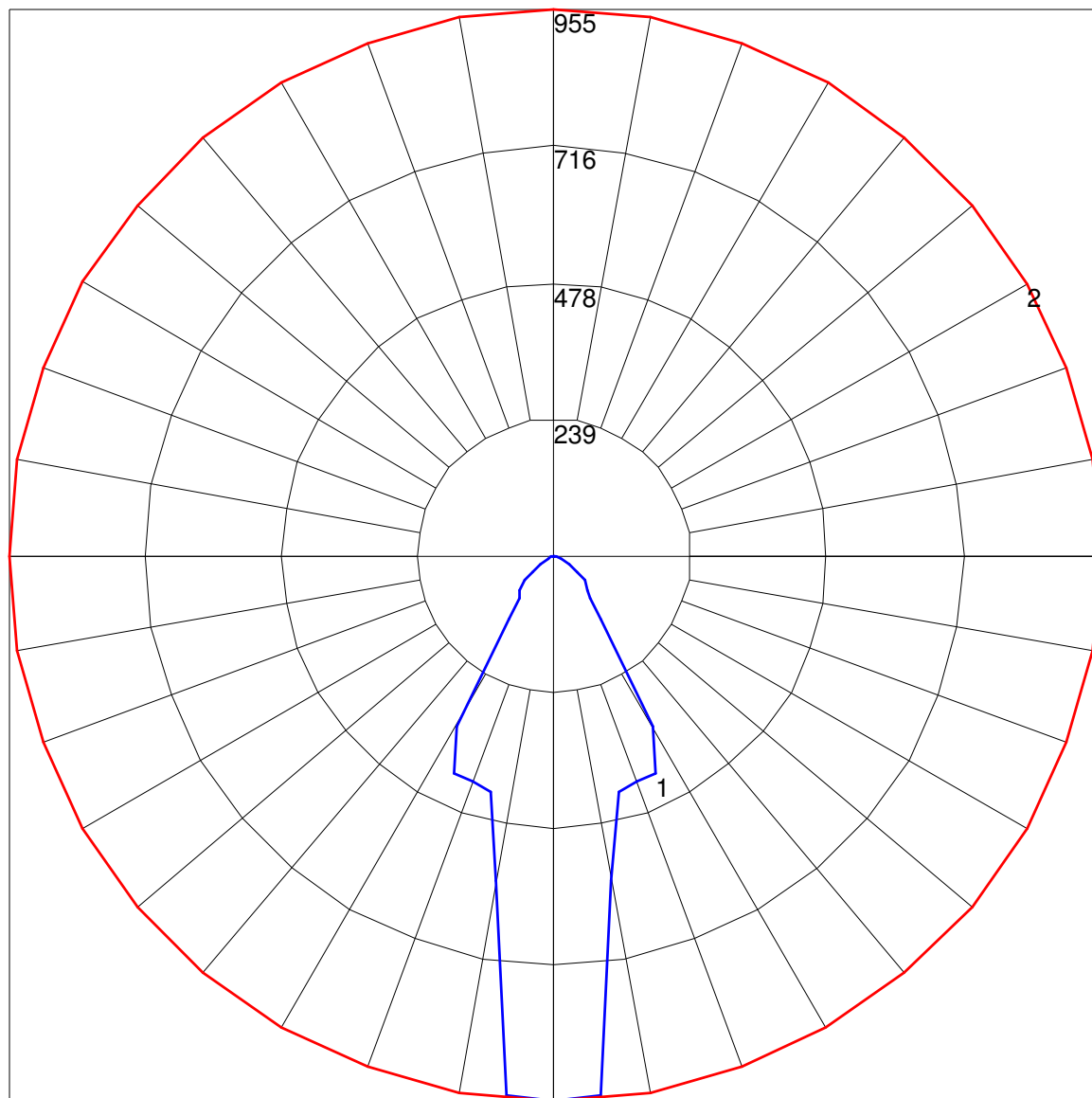
X=2H	Y=2H	13.3	14.5	13.7	14.8	15.1	13.3	14.5	13.7	14.8	15.1
	3H	13.4	14.4	13.7	14.7	15.1	13.4	14.4	13.7	14.7	15.1
	4H	13.3	14.2	13.7	14.6	15.0	13.3	14.2	13.7	14.6	15.0
	6H	13.2	14.0	13.6	14.4	14.8	13.2	14.0	13.6	14.4	14.8
	8H	13.1	13.9	13.6	14.3	14.7	13.1	13.9	13.6	14.3	14.7
	12H	13.1	13.9	13.5	14.2	14.7	13.1	13.9	13.5	14.2	14.7

UGR Viewed Endwise

4H	2H	13.3	14.2	13.7	14.6	15.0	13.3	14.2	13.7	14.6	15.0
	3H	13.3	14.1	13.8	14.5	14.9	13.3	14.1	13.8	14.5	14.9
	4H	13.2	13.9	13.7	14.3	14.8	13.2	13.9	13.7	14.3	14.8
	6H	13.1	13.7	13.6	14.2	14.6	13.1	13.7	13.6	14.2	14.6
	8H	13.1	13.6	13.5	14.1	14.5	13.1	13.6	13.5	14.1	14.5
	12H	13.0	13.5	13.5	14.0	14.5	13.0	13.5	13.5	14.0	14.5
8H	4H	13.1	13.6	13.5	14.1	14.5	13.1	13.6	13.5	14.1	14.5
	6H	13.0	13.4	13.5	13.9	14.4	13.0	13.4	13.5	13.9	14.4
	8H	12.9	13.3	13.4	13.8	14.3	12.9	13.3	13.4	13.8	14.3
	12H	12.9	13.2	13.4	13.7	14.3	12.9	13.2	13.4	13.7	14.3
12H	4H	13.0	13.5	13.5	14.0	14.5	13.0	13.5	13.5	14.0	14.5
	6H	12.9	13.3	13.4	13.8	14.3	12.9	13.3	13.4	13.8	14.3
	8H	12.9	13.2	13.4	13.7	14.3	12.9	13.2	13.4	13.7	14.3

Maximum UGR = 15.1

POLAR GRAPH



Maximum Candela = 955.311 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.)