IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DR-TL-L70-8TW-DIM-UNV-OW-OF-CS_3500K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 20685.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-10-14
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4" RND RECESSED LED DOWNLIGHT
[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)
[LUMCAT] 4DR-TL-L70-8TW-DIM-UNV-OW-OF-CS_3500K_
[LAMPCAT] BRIDGELUX V13 BXRE
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	58.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 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	21663	21663	21663
55	6676	6676	6676
65	824	824	824
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0
0	6131.033
5	6313.948
10	6503.637
15	6639.130
20	6933.826
25	7557.091
30	5921.020
35	1039.904
40	270.985
45	149.042
50	77.908
55	37.260
60	16.937
65	3.387
70	3.387
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	2505.52	N.A.	35.10
0-30	5731.02	N.A.	80.20
0-40	6974.78	N.A.	97.60
0-60	7135.98	N.A.	99.90
0-80	7143.52	N.A.	100.00
0-90	7143.52	N.A.	100.00
10-90	6536.22	N.A.	91.50
20-40	4469.25	N.A.	62.60
20-50	4592.88	N.A.	64.30
40-70	167.85	N.A.	2.30
60-80	7.54	N.A.	0.10
70-80	0.89	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	7143.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	607.30
10-20	1898.22
20-30	3225.5
30-40	1243.76
40-50	123.63
50-60	37.57
60-70	6.66
70-80	0.89
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	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

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UGR TABLE - CORRECTED

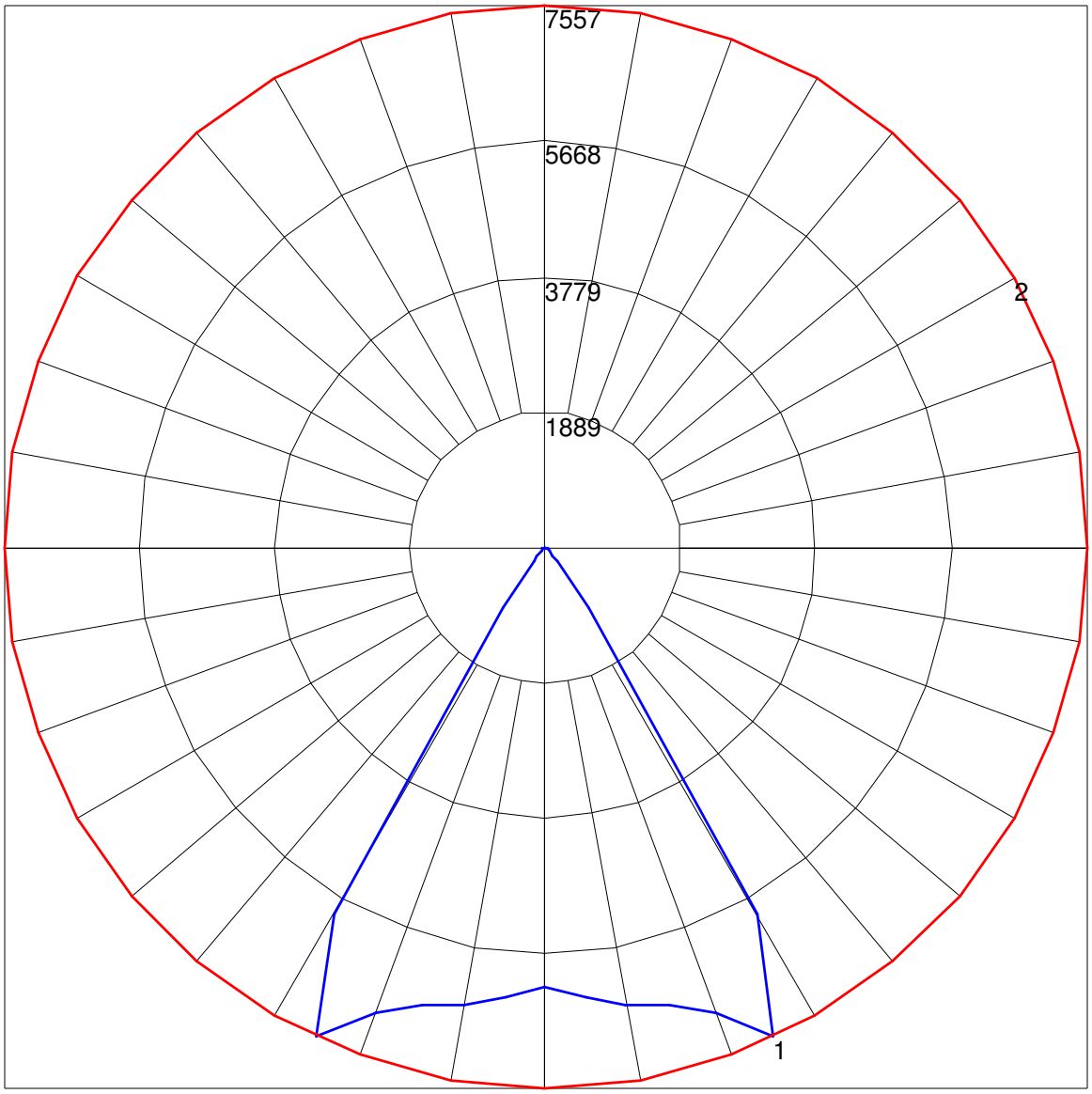
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	3H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	4H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	6H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	8H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	12H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
4H	2H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	3H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	4H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	6H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	8H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	12H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
8H	4H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	6H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	8H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	12H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
12H	4H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	6H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	8H	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8

Maximum UGR = 6.8

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POLAR GRAPH



Maximum Candela = 7557.091 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)

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