

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-830-DIM-UNV-FW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20683.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE]DATE] 01-10-2025

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS(WIDE)

[MORE] ADVANCE # XI025C070V054DSM5 @ 490mA

[LUMCAT] 4DR-TL-L30-830-DIM-UNV-FW-OF-CS

[LAMPCAT] V13 BXRE-35E2000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.98
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	34383	34383	34383
55	2068	2068	2068
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1758.354
5	1790.088
10	1870.865
15	1924.236
20	1906.927
25	1756.911
30	1299.653
35	728.440
40	421.197
45	236.563
50	96.645
55	11.540
60	5.770
65	0.000
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	714.25	N.A.	32.60
0-30	1485.33	N.A.	67.70
0-40	1975.79	N.A.	90.10
0-60	2192.43	N.A.	99.90
0-80	2193.83	N.A.	100.00
0-90	2193.83	N.A.	100.00
10-90	2020.45	N.A.	92.10
20-40	1261.54	N.A.	57.50
20-50	1450.66	N.A.	66.10
40-70	218.05	N.A.	9.90
60-80	1.40	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	2193.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.38
10-20	540.86
20-30	771.08
30-40	490.46
40-50	189.12
50-60	27.52
60-70	1.40
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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	76	72	90	82	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	61	68	64	60	59
8	77	68	61	57	76	67	61	57	66	61	57	65	60	56	64	59	56	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

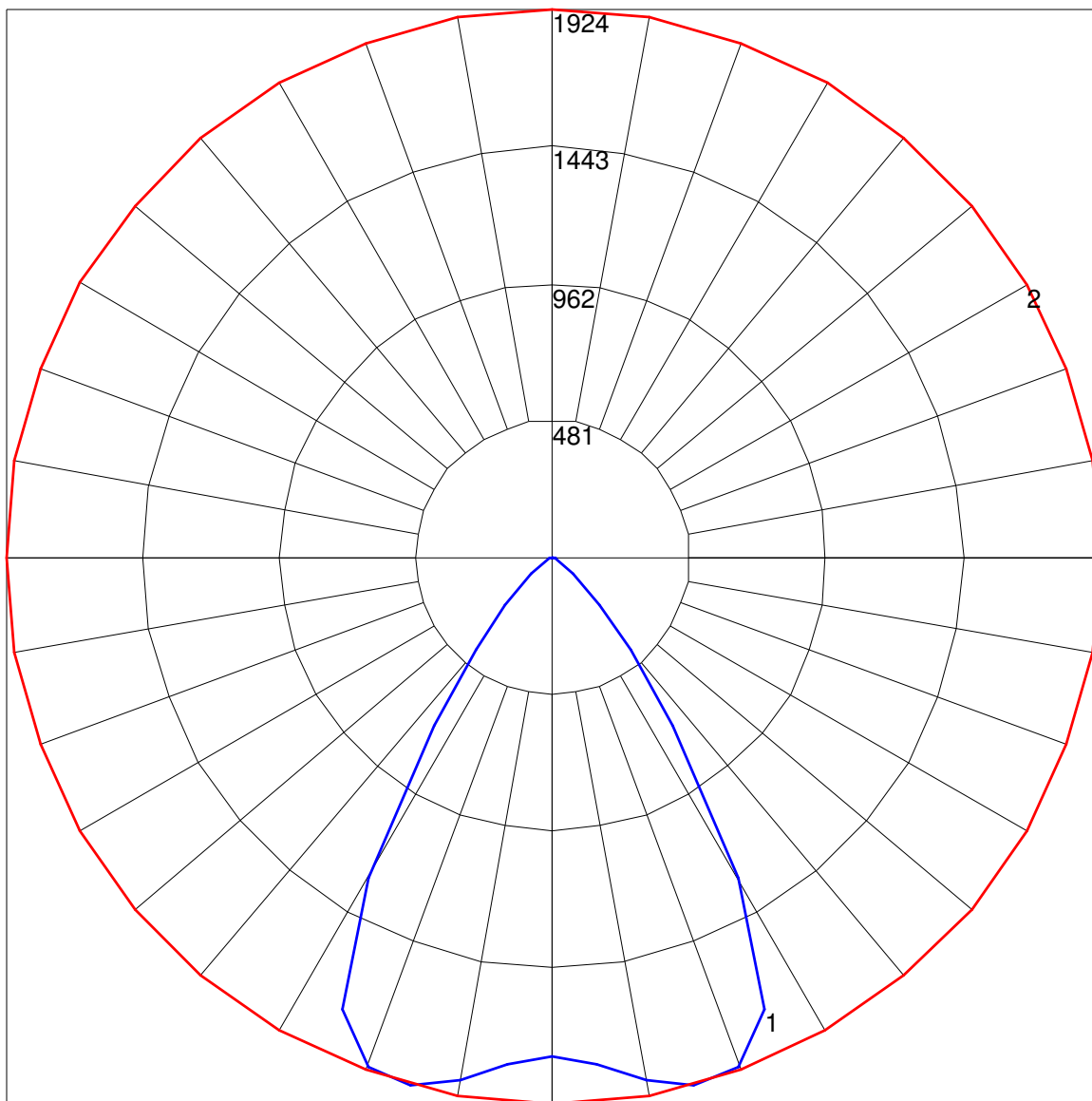
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UGR TABLE - CORRECTED

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	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	3H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
4H	2H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	3H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
8H	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
12H	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7

Maximum UGR = 2.7

POLAR GRAPH



Maximum Candela = 1924.236 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)