



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L24-9DW-DIM-UNV-OW-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 13-DEC-2018

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[MORE] ADVANCE #X1025C070V054DSM5 @ 490mA

[LUMCAT] 4DR-TL-L24-9DW-DIM-UNV-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	37.7
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	7105	7105	7105
55	2190	2190	2190
65	270	270	270
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DR-TL-L24-9DW-DIM-UNV-OW-OF-CS.IES

CANDELA TABULATION

	<u>0</u>
0	2010.910
5	2070.904
10	2133.120
15	2177.560
20	2274.217
25	2478.641
30	1942.028
35	341.077
40	88.880
45	48.884
50	25.553
55	12.221
60	5.555
65	1.111
70	1.111
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DR-TL-L24-9DW-DIM-UNV-OW-OF-CS.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	821.78	N.A.	35.10
0-30	1879.71	N.A.	80.20
0-40	2287.65	N.A.	97.60
0-60	2340.52	N.A.	99.90
0-80	2342.99	N.A.	100.00
0-90	2342.99	N.A.	100.00
10-90	2143.81	N.A.	91.50
20-40	1465.86	N.A.	62.60
20-50	1506.41	N.A.	64.30
40-70	55.05	N.A.	2.30
60-80	2.47	N.A.	0.10
70-80	0.29	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	2342.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.19
10-20	622.60
20-30	1057.93
30-40	407.94
40-50	40.55
50-60	12.32
60-70	2.18
70-80	0.29
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

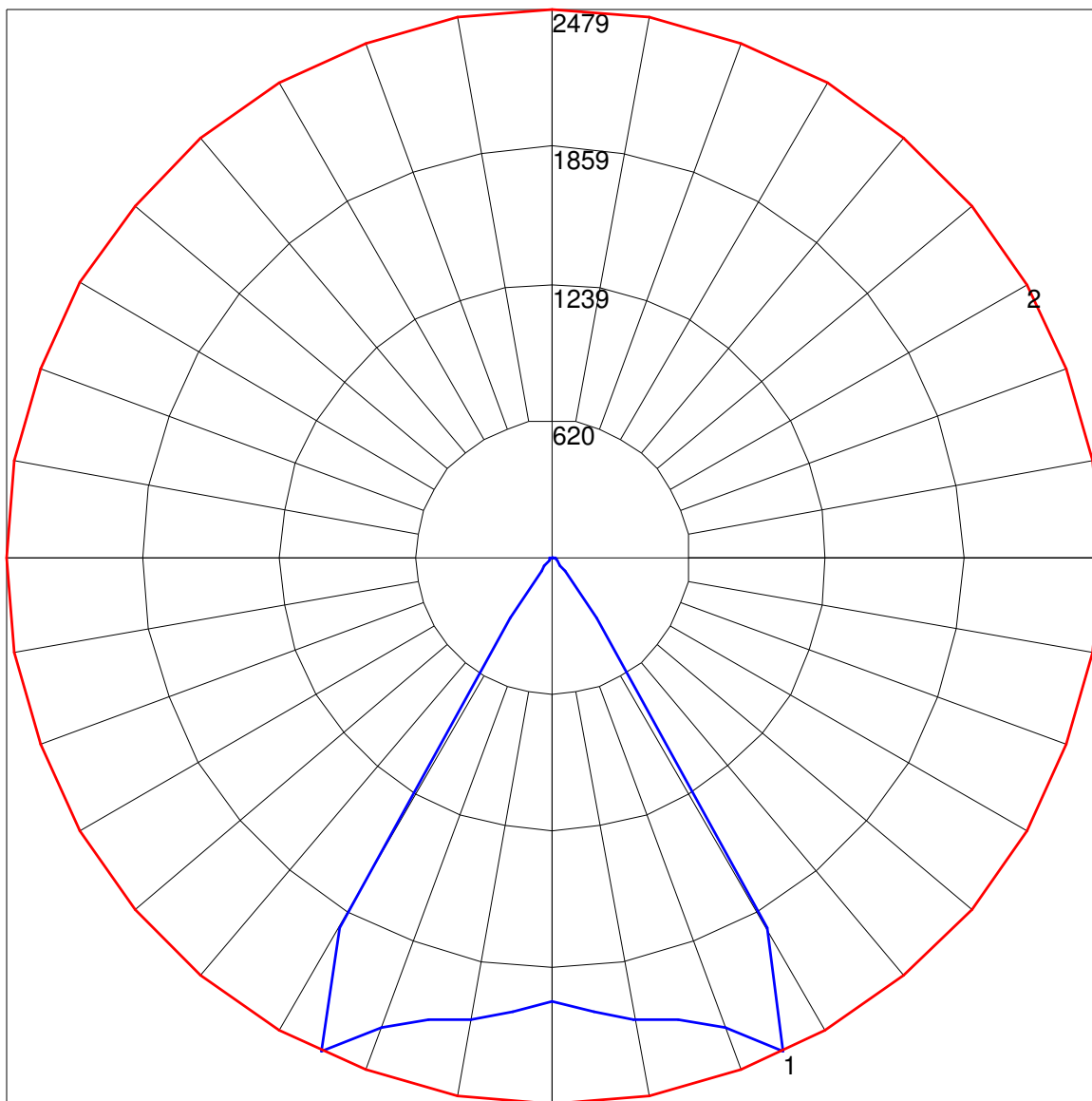
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DR-TL-L24-9DW-DIM-UNV-OW-OF-CS.IES

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	132	132	132	132	129	129	129	129	123	123	123	118	118	118	113	113	113	111
1	126	123	121	118	124	121	119	116	116	115	113	112	111	109	109	107	106	104
2	120	115	111	107	118	113	109	106	110	106	104	106	104	101	103	101	99	97
3	115	108	102	98	112	106	101	97	103	99	96	101	97	94	98	95	93	91
4	109	101	95	90	107	100	94	90	97	92	89	95	91	88	93	89	87	85
5	104	95	88	84	102	94	88	83	92	86	83	90	85	82	88	84	81	79
6	98	89	82	78	97	88	82	77	86	81	77	85	80	76	83	79	76	74
7	94	84	77	73	92	83	77	72	81	76	72	80	75	72	79	75	71	70
8	89	79	72	68	88	78	72	68	77	71	67	76	71	67	75	70	67	65
9	85	74	68	64	84	74	68	63	73	67	63	72	67	63	71	66	63	61
10	81	70	64	60	80	70	64	60	69	63	59	68	63	59	67	63	59	58

POLAR GRAPH



Maximum Candela = 2478.641 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.)