



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L20-935-DIM-UNV-OW-OF-BL_PHOTOPIA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2021.0.0 see: www.ltiopics.com/ies

[ISSUEDATE] 19 MARCH 2026

[TESTDATE] 03-19-2026

[TEST] HEW PHOTOMETRIC REPORT #W00539

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4DR-TL-L15-935-DIM-UNV-OW-OF-BL

[LUMINAIRE] 4 INCH ROUND RECESSED LED DOWNLIGHT

[MORE] WITH WIDE DIST OPEN BLACK TRIM

[LAMP] LED 16.8W Vero COB array (500mA)

[LAMPCAT] BXRC-30E2000

[OTHER] THIS DATA IS BASED ON IN-HOUSE COMPUTER

[OTHER] SIMULATIONS AND IS PROVIDED AS A GOOD-FAITH

[OTHER] ESTIMATE OF PHOTOMETRIC PERFORMANCE.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	13.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.46 ft
Luminous Width (90-270)	0.46 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	346	390	390
55	267	267	267
65	217	217	217
75	118	118	118
85	0	0	0

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	650.497	650.497	650.497	650.497	650.497
5	649.899	642.127	658.270	638.540	647.508
10	657.074	651.693	643.921	642.725	643.323
15	626.582	634.354	643.921	640.333	625.984
20	617.614	617.016	617.016	618.810	613.429
25	601.471	592.503	587.720	599.079	600.873
30	389.820	394.005	388.026	385.037	383.841
35	15.545	15.545	16.143	15.545	15.545
40	5.381	5.381	5.381	5.381	5.381
45	4.783	5.381	5.381	4.783	5.381
50	4.185	4.185	4.185	4.185	4.185
55	2.989	2.989	2.989	2.989	2.989
60	2.392	2.392	2.392	2.392	2.392
65	1.794	1.794	1.794	1.794	1.794
70	1.196	1.196	1.196	1.196	1.196
75	0.598	0.598	0.598	0.598	0.598
80	0.598	0.598	0.598	0.598	0.598
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	241.22	N.A.	42.70
0-30	492.83	N.A.	87.20
0-40	555.87	N.A.	98.30
0-60	562.51	N.A.	99.50
0-80	565.07	N.A.	100.00
0-90	565.24	N.A.	100.00
10-90	503.43	N.A.	89.10
20-40	314.65	N.A.	55.70
20-50	318.48	N.A.	56.30
40-70	8.42	N.A.	1.50
60-80	2.56	N.A.	0.50
70-80	0.79	N.A.	0.10
80-90	0.16	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	565.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.80
10-20	179.42
20-30	251.61
30-40	63.03
40-50	3.84
50-60	2.80
60-70	1.77
70-80	0.79
80-90	0.16
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	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72	79	75	72	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	64	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56

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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

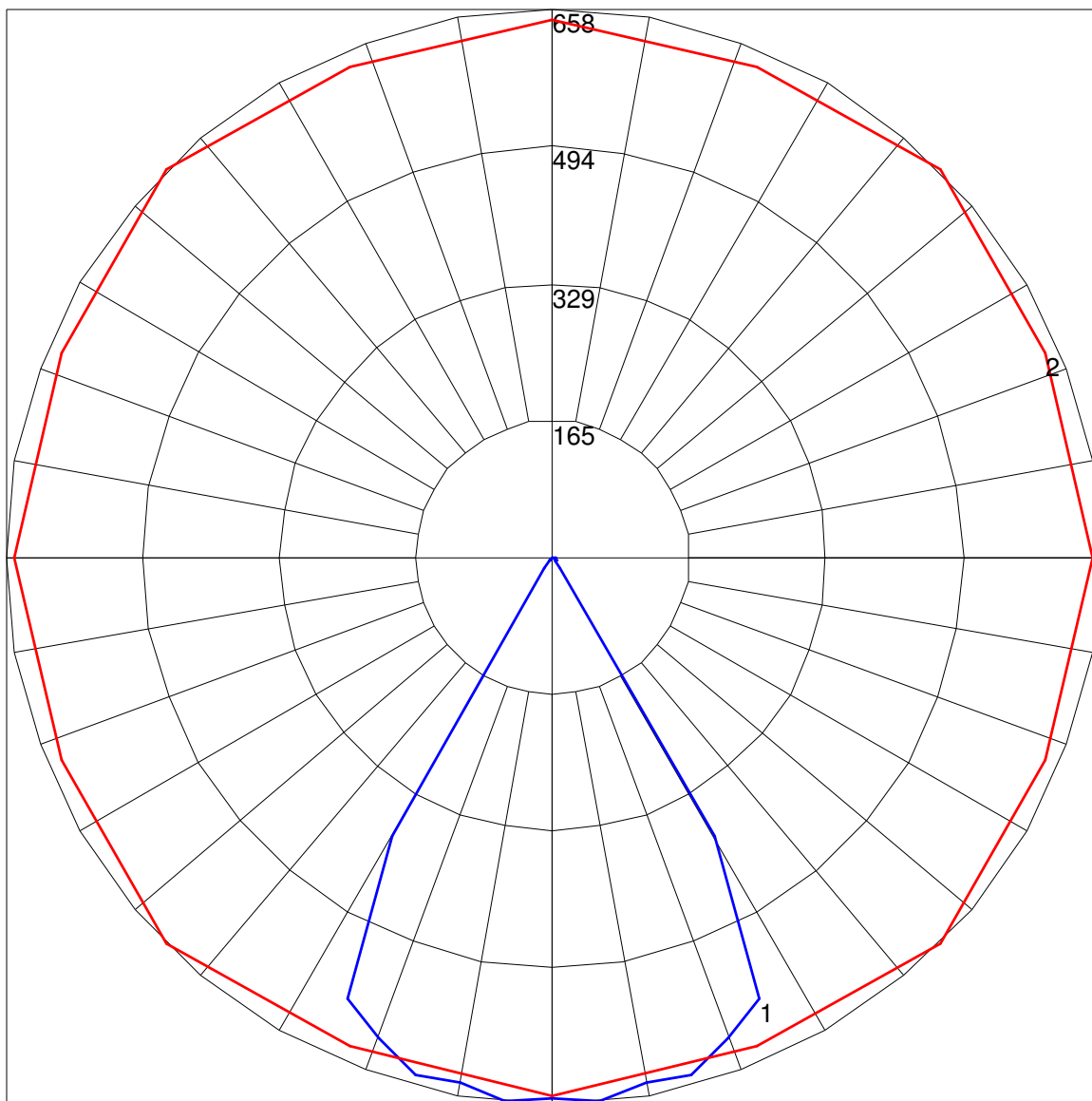
X=2H	Y=2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

UGR Viewed Endwise

4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8H	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
	12H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
12H	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
	8H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3

Maximum UGR = 0.3

POLAR GRAPH



Maximum Candela = 658.27 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)