

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L40-935-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.ltioptics.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-L40-935-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	1534
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	38
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	940	1057	1057
55	724	724	724
65	590	590	590
75	321	321	321
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	1765.561	1765.561	1765.561	1765.561	1765.561
5	1763.938	1742.842	1786.657	1733.106	1757.447
10	1783.411	1768.806	1747.710	1744.465	1746.088
15	1700.650	1721.746	1747.710	1737.974	1699.028
20	1676.309	1674.686	1674.686	1679.555	1664.950
25	1632.495	1608.153	1595.171	1626.004	1630.872
30	1058.038	1069.398	1053.170	1045.056	1041.811
35	42.192	42.192	43.814	42.192	42.192
40	14.605	14.605	14.605	14.605	14.605
45	12.982	14.605	14.605	12.982	14.605
50	11.359	11.359	11.359	11.359	11.359
55	8.114	8.114	8.114	8.114	8.114
60	6.491	6.491	6.491	6.491	6.491
65	4.868	4.868	4.868	4.868	4.868
70	3.246	3.246	3.246	3.246	3.246
75	1.623	1.623	1.623	1.623	1.623
80	1.623	1.623	1.623	1.623	1.623
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	654.71	N.A.	42.70
0-30	1337.63	N.A.	87.20
0-40	1508.72	N.A.	98.30
0-60	1526.75	N.A.	99.50
0-80	1533.7	N.A.	100.00
0-90	1534.14	N.A.	100.00
10-90	1366.4	N.A.	89.10
20-40	854.00	N.A.	55.70
20-50	864.42	N.A.	56.30
40-70	22.85	N.A.	1.50
60-80	6.96	N.A.	0.50
70-80	2.14	N.A.	0.10
80-90	0.44	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	1534.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.74
10-20	486.97
20-30	682.92
30-40	171.08
40-50	10.42
50-60	7.61
60-70	4.82
70-80	2.14
80-90	0.44
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	111	109	107	105	105	103	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	90	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	63	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

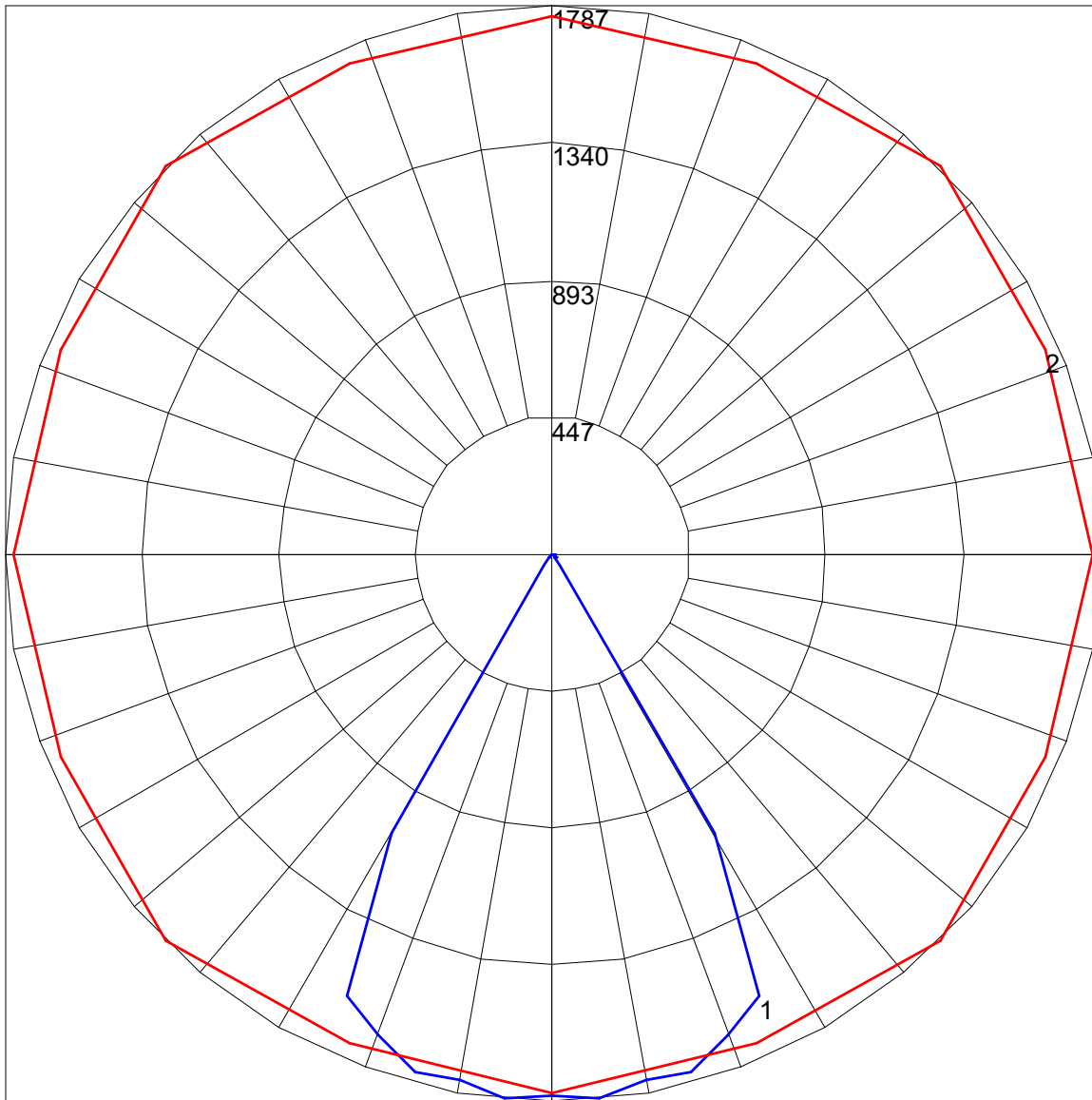
X=2H	Y=2H	0.0	0.4	0.0	0.7	1.0	0.0	0.4	0.0	0.7	1.0
	3H	0.7	1.5	1.1	1.8	2.2	0.7	1.5	1.1	1.8	2.2
	4H	0.9	1.7	1.4	2.0	2.4	0.9	1.7	1.4	2.0	2.4
	6H	1.3	1.9	1.7	2.3	2.7	1.3	1.9	1.7	2.3	2.7
	8H	1.4	2.0	1.8	2.4	2.8	1.4	2.0	1.8	2.4	2.8
	12H	1.3	1.9	1.8	2.3	2.7	1.3	1.9	1.8	2.3	2.7

UGR Viewed Endwise

4H	2H	0.0	0.6	0.3	1.0	1.4	0.0	0.6	0.3	1.0	1.4
	3H	1.2	1.8	1.6	2.2	2.6	1.2	1.8	1.6	2.2	2.6
	4H	1.5	2.0	1.9	2.4	2.9	1.5	2.0	1.9	2.4	2.9
	6H	2.0	2.4	2.5	2.9	3.4	2.0	2.4	2.5	2.9	3.4
	8H	2.1	2.5	2.6	3.0	3.5	2.1	2.5	2.6	3.0	3.5
	12H	2.1	2.4	2.6	2.9	3.4	2.1	2.4	2.6	2.9	3.4
8H	4H	1.5	2.0	2.0	2.4	2.9	1.5	2.0	2.0	2.4	2.9
	6H	2.2	2.6	2.7	3.1	3.5	2.2	2.6	2.7	3.1	3.5
	8H	2.4	2.7	2.9	3.2	3.7	2.4	2.7	2.9	3.2	3.7
	12H	2.4	2.6	2.9	3.1	3.7	2.4	2.6	2.9	3.1	3.7
12H	4H	1.5	1.9	2.0	2.4	2.9	1.5	1.9	2.0	2.4	2.9
	6H	2.2	2.5	2.8	3.0	3.6	2.2	2.5	2.8	3.0	3.6
	8H	2.4	2.7	3.0	3.2	3.8	2.4	2.7	3.0	3.2	3.8

Maximum UGR = 3.8

POLAR GRAPH



Maximum Candela = 1786.657 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.)