



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM-UNV-OW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE] 09-16-2022

[TEST DATE] Wed Mar 24 14:26:47 2021

[TEST] H.E. WILLIAMS PHOTOMETRIC REPORT #W00538

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND LED DOWNLIGHT WITH WHITE

[MORE] PAINTED TRIM WIDE DISTRIBUTION

[LUMCAT] 6DR-TL-L10-940-DIM-UNV-OW-OF-WH

[LAMP] Bridgelux Vero COB

[LAMPCAT] CLU048-1212C4-303M2M2-F1

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, OFFICE, CLASSROOM

[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	8.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6729	6683	6709
55	5964	5972	5988
65	4735	4735	4778
75	3581	3616	3616
85	2169	2063	2116

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	507.942	507.942	507.942	507.942	507.942
5	502.368	511.586	512.336	508.799	506.441
10	501.511	502.368	504.190	501.618	499.796
15	495.080	488.006	492.400	491.328	486.076
20	484.790	480.181	481.896	481.789	483.075
25	473.107	473.321	472.464	470.106	469.463
30	397.972	400.866	400.115	398.829	403.224
35	164.526	163.347	163.669	164.205	163.133
40	116.080	114.472	114.472	114.257	115.436
45	110.613	110.077	109.863	110.184	110.292
50	98.287	97.966	98.180	98.287	97.966
55	79.530	80.495	79.637	79.744	79.852
60	62.381	61.309	62.273	62.273	61.523
65	46.518	46.303	46.518	46.410	46.946
70	32.798	33.334	33.334	32.905	33.334
75	21.544	21.437	21.758	21.651	21.758
80	12.219	11.897	12.112	12.219	12.112
85	4.395	4.395	4.180	4.395	4.287
90	0.107	0.107	0.214	0.214	0.107

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	187.39	N.A.	24.70
0-30	397.76	N.A.	52.50
0-40	527.26	N.A.	69.60
0-60	682.48	N.A.	90.00
0-80	752.35	N.A.	99.20
0-90	758.05	N.A.	100.00
10-90	709.70	N.A.	93.60
20-40	339.87	N.A.	44.80
20-50	423.60	N.A.	55.90
40-70	201.75	N.A.	26.60
60-80	69.87	N.A.	9.20
70-80	23.34	N.A.	3.10
80-90	5.69	N.A.	0.80
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	758.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.34
10-20	139.05
20-30	210.37
30-40	129.50
40-50	83.73
50-60	71.50
60-70	46.53
70-80	23.34
80-90	5.69
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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

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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	16.6	17.9	16.9	18.2	18.5	16.6	17.9	17.0	18.2	18.5
	3H	17.9	19.1	18.3	19.4	19.8	17.9	19.1	18.3	19.4	19.8
	4H	18.3	19.4	18.7	19.8	20.2	18.4	19.5	18.8	19.8	20.2
	6H	18.6	19.6	19.0	20.0	20.4	18.6	19.7	19.1	20.0	20.4
	8H	18.7	19.7	19.1	20.1	20.5	18.7	19.7	19.1	20.1	20.5
	12H	18.7	19.7	19.2	20.0	20.5	18.8	19.7	19.2	20.1	20.5

UGR Viewed Endwise

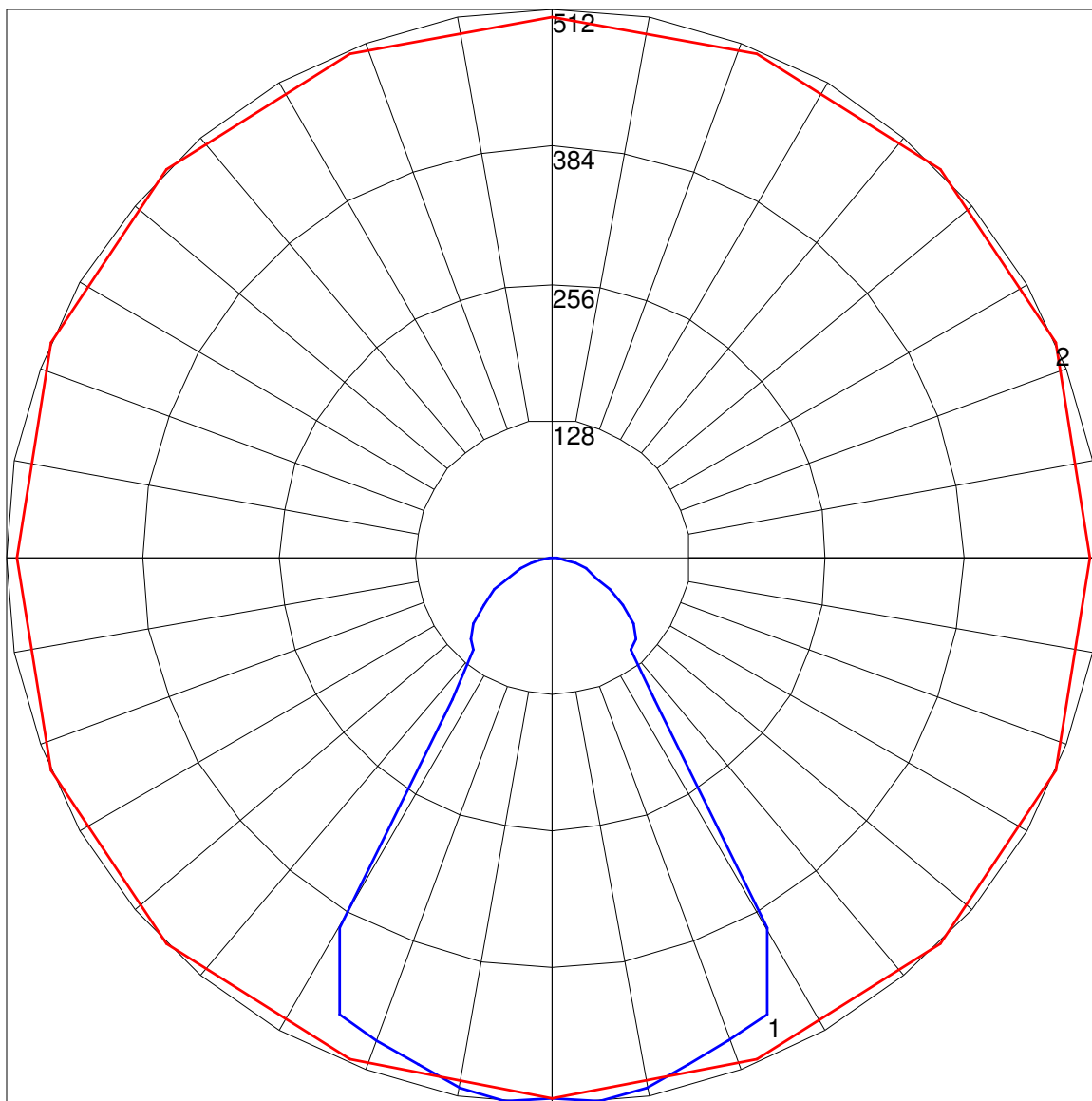
4H	2H	17.0	18.1	17.4	18.5	18.8	17.0	18.1	17.4	18.5	18.8
	3H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.3
	4H	19.1	19.9	19.5	20.3	20.8	19.1	19.9	19.5	20.3	20.8
	6H	19.5	20.2	19.9	20.6	21.1	19.5	20.2	20.0	20.6	21.1
	8H	19.6	20.2	20.0	20.7	21.2	19.6	20.3	20.1	20.7	21.2
	12H	19.6	20.2	20.1	20.7	21.2	19.7	20.2	20.2	20.7	21.2

8H	4H	19.2	19.9	19.7	20.4	20.8	19.3	19.9	19.7	20.4	20.8
	6H	19.7	20.3	20.2	20.8	21.2	19.7	20.3	20.3	20.8	21.3
	8H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	12H	20.0	20.4	20.5	20.9	21.5	20.0	20.5	20.5	20.9	21.5

12H	4H	19.3	19.8	19.7	20.3	20.8	19.3	19.8	19.8	20.3	20.8
	6H	19.8	20.2	20.3	20.7	21.2	19.8	20.3	20.3	20.7	21.3
	8H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 512.336 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.)