



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM-UNV-OW-OF-WH-WET-CC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN FROM Photopia see: www.ltiophics.com/ies
[ISSUE DATE] 09-20-2022
[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-WET-CC
[LAMP] Bridgelux Vero COB
[LAMP CAT] 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	724
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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)	0.58 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4722	4690	4708
55	4185	4191	4202
65	3323	3323	3353
75	2513	2538	2538
85	1522	1448	1485

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	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	485.158	485.158	485.158	485.158	485.158
5	479.834	488.639	489.355	485.977	483.725
10	479.015	479.834	481.575	479.118	477.377
15	472.873	466.116	470.313	469.290	464.273
20	463.045	458.643	460.281	460.178	461.407
25	451.886	452.091	451.272	449.019	448.405
30	380.121	382.885	382.168	380.940	385.137
35	157.147	156.020	156.328	156.839	155.816
40	110.873	109.337	109.337	109.132	110.259
45	105.652	105.140	104.935	105.242	105.344
50	93.878	93.571	93.776	93.878	93.571
55	75.963	76.884	76.065	76.167	76.270
60	59.583	58.559	59.480	59.480	58.764
65	44.431	44.226	44.431	44.329	44.841
70	31.327	31.839	31.839	31.429	31.839
75	20.577	20.475	20.782	20.680	20.782
80	11.671	11.364	11.568	11.671	11.568
85	4.197	4.197	3.993	4.197	4.095
90	0.102	0.102	0.205	0.205	0.102

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Zone	Lumens	%Lamp	%Fixt
0-20	178.98	N.A.	24.70
0-30	379.92	N.A.	52.50
0-40	503.61	N.A.	69.60
0-60	651.87	N.A.	90.00
0-80	718.61	N.A.	99.20
0-90	724.05	N.A.	100.00
10-90	677.87	N.A.	93.60
20-40	324.62	N.A.	44.80
20-50	404.60	N.A.	55.90
40-70	192.70	N.A.	26.60
60-80	66.74	N.A.	9.20
70-80	22.30	N.A.	3.10
80-90	5.44	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	724.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.18
10-20	132.81
20-30	200.93
30-40	123.69
40-50	79.97
50-60	68.29
60-70	44.44
70-80	22.30
80-90	5.44
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	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	15.4	16.7	15.8	17.0	17.4	UGR Viewed Endwise	15.4	16.7	15.8	17.0	17.4
	3H	16.7	17.9	17.1	18.2	18.6		16.7	17.9	17.1	18.2	18.6
	4H	17.2	18.3	17.6	18.6	19.0		17.2	18.3	17.6	18.6	19.0
	6H	17.4	18.5	17.9	18.8	19.2		17.5	18.5	17.9	18.9	19.3
	8H	17.5	18.5	18.0	18.9	19.3		17.5	18.5	18.0	18.9	19.3
	12H	17.6	18.5	18.0	18.9	19.3		17.6	18.5	18.0	18.9	19.3

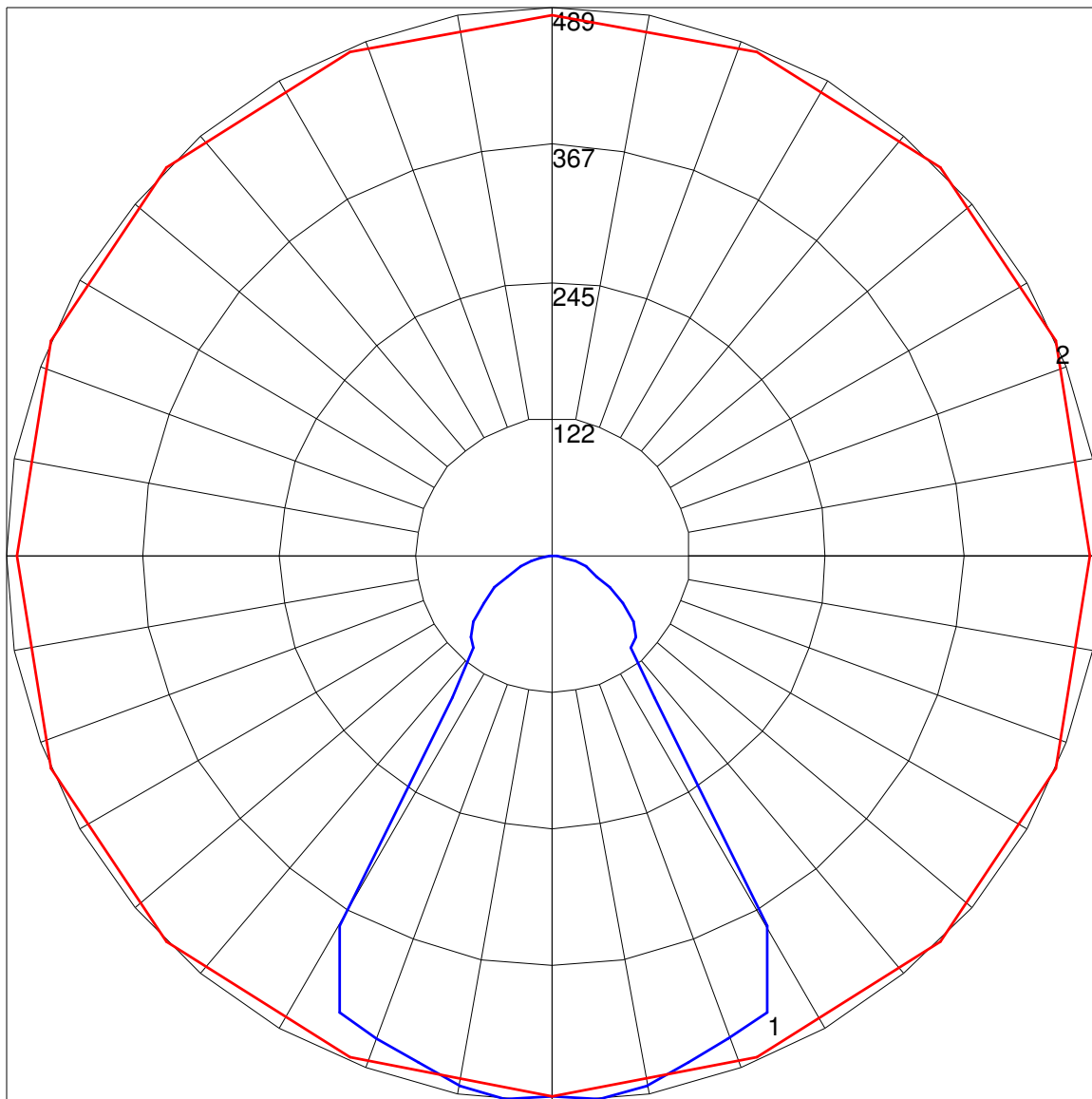
4H	2H	15.8	16.9	16.2	17.3	17.7	15.8	16.9	16.2	17.3	17.7
	3H	17.4	18.3	17.8	18.7	19.1	17.4	18.3	17.8	18.7	19.1
	4H	17.9	18.7	18.3	19.1	19.6	17.9	18.7	18.4	19.2	19.6
	6H	18.3	19.0	18.8	19.5	19.9	18.3	19.0	18.8	19.5	19.9
	8H	18.4	19.1	18.9	19.5	20.0	18.4	19.1	18.9	19.5	20.0
	12H	18.5	19.0	19.0	19.5	20.0	18.5	19.1	19.0	19.5	20.0

8H	4H	18.1	18.7	18.5	19.2	19.7	18.1	18.8	18.6	19.2	19.7
	6H	18.6	19.1	19.1	19.6	20.1	18.6	19.1	19.1	19.6	20.1
	8H	18.7	19.2	19.2	19.7	20.2	18.7	19.2	19.3	19.7	20.2
	12H	18.8	19.3	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3

12H	4H	18.1	18.7	18.6	19.1	19.6	18.1	18.7	18.6	19.2	19.6
	6H	18.6	19.1	19.1	19.5	20.1	18.6	19.1	19.1	19.6	20.1
	8H	18.8	19.2	19.3	19.7	20.3	18.8	19.2	19.3	19.7	20.3

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 489.355 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.)