



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-930-DIM-UNV-OW-OF-WH-TD\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] GEN FROM Photopia see: www.ltiopics.com/ies  
 [ISSUE DATE] 10-18-2023  
 [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-L10-930-DIM-UNV-OW-OF-WH-TD  
 [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	535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
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	4747	4714	4733
55	4207	4213	4224
65	3340	3340	3371
75	2526	2551	2551
85	1530	1455	1492

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
<b>0</b>	358.312	358.312	358.312	358.312	358.312
<b>5</b>	354.380	360.882	361.412	358.916	357.253
<b>10</b>	353.775	354.380	355.665	353.851	352.565
<b>15</b>	349.238	344.248	347.348	346.592	342.887
<b>20</b>	341.980	338.729	339.939	339.863	340.770
<b>25</b>	333.739	333.890	333.285	331.622	331.168
<b>30</b>	280.737	282.778	282.249	281.341	284.441
<b>35</b>	116.060	115.228	115.455	115.833	115.077
<b>40</b>	81.885	80.751	80.751	80.599	81.431
<b>45</b>	78.029	77.651	77.499	77.726	77.802
<b>50</b>	69.334	69.107	69.258	69.334	69.107
<b>55</b>	56.102	56.782	56.178	56.253	56.329
<b>60</b>	44.004	43.248	43.929	43.929	43.400
<b>65</b>	32.814	32.663	32.814	32.739	33.117
<b>70</b>	23.136	23.514	23.514	23.212	23.514
<b>75</b>	15.197	15.122	15.349	15.273	15.349
<b>80</b>	8.619	8.393	8.544	8.619	8.544
<b>85</b>	3.100	3.100	2.949	3.100	3.024
<b>90</b>	0.076	0.076	0.151	0.151	0.076

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	132.19	N.A.	24.70
0-30	280.59	N.A.	52.50
0-40	371.94	N.A.	69.60
0-60	481.44	N.A.	90.00
0-80	530.73	N.A.	99.20
0-90	534.74	N.A.	100.00
10-90	500.64	N.A.	93.60
20-40	239.75	N.A.	44.80
20-50	298.81	N.A.	55.90
40-70	142.32	N.A.	26.60
60-80	49.29	N.A.	9.20
70-80	16.47	N.A.	3.10
80-90	4.02	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	534.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.10
10-20	98.09
20-30	148.40
30-40	91.35
40-50	59.06
50-60	50.44
60-70	32.82
70-80	16.47
80-90	4.02
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

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	96	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	68	65	63
5	84	74	66	61	82	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	58	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	42	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

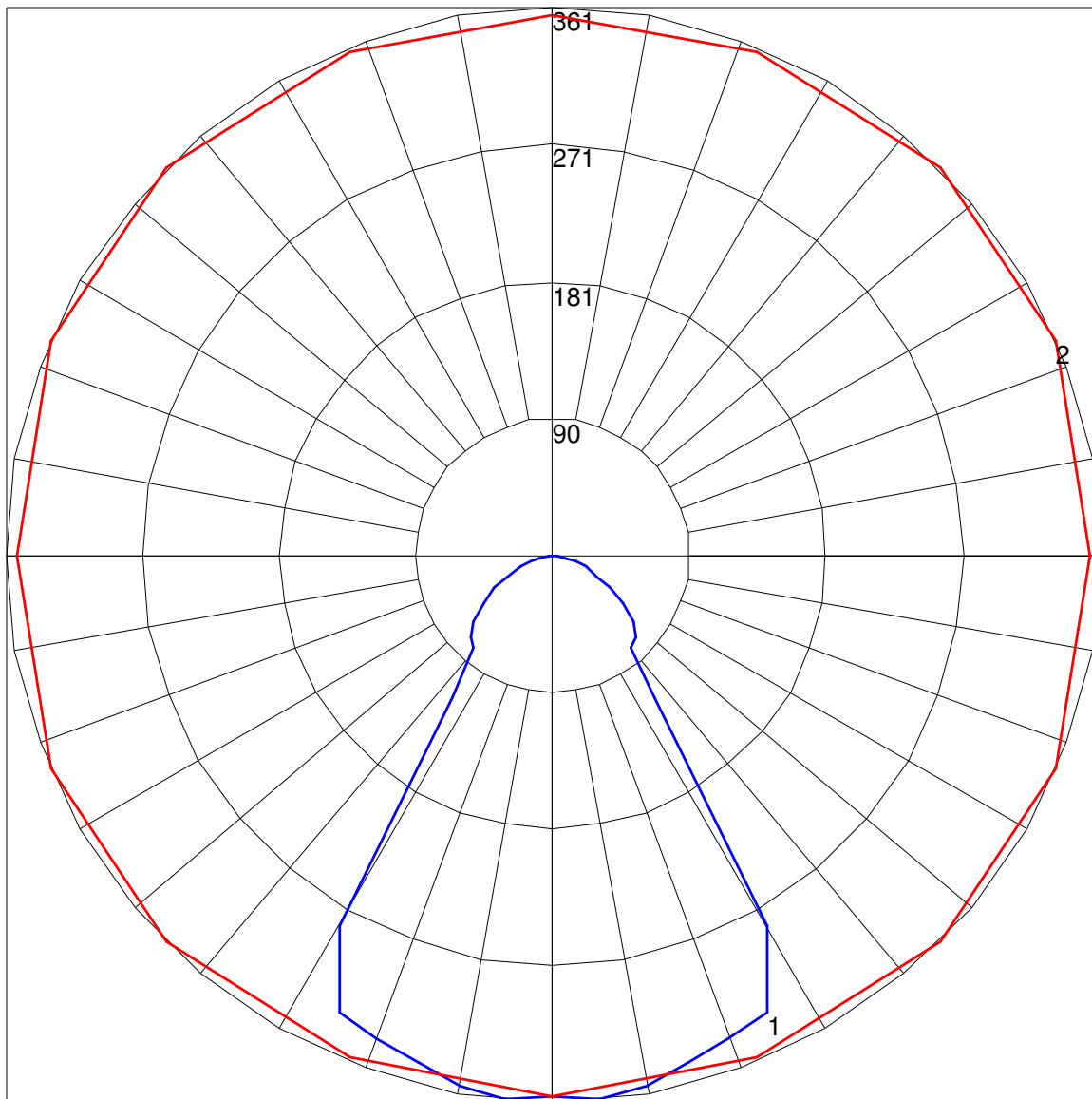
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.7	15.7	17.0	17.3	15.4	16.7	15.7	17.0	17.3
	3H	16.7	17.9	17.1	18.2	18.6	16.7	17.9	17.1	18.2	18.6
	4H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	6H	17.4	18.4	17.8	18.8	19.2	17.4	18.5	17.9	18.8	19.2
	8H	17.5	18.5	17.9	18.9	19.3	17.5	18.5	17.9	18.9	19.3
	12H	17.5	18.5	18.0	18.8	19.3	17.6	18.5	18.0	18.9	19.3
4H	2H	15.8	16.9	16.2	17.3	17.6	15.8	16.9	16.2	17.3	17.6
	3H	17.3	18.2	17.7	18.6	19.0	17.3	18.2	17.7	18.6	19.0
	4H	17.9	18.7	18.3	19.1	19.5	17.9	18.7	18.3	19.1	19.6
	6H	18.3	19.0	18.7	19.4	19.9	18.3	19.0	18.8	19.4	19.9
	8H	18.4	19.0	18.8	19.5	19.9	18.4	19.1	18.9	19.5	20.0
	12H	18.4	19.0	18.9	19.5	20.0	18.5	19.0	18.9	19.5	20.0
8H	4H	18.0	18.7	18.5	19.1	19.6	18.1	18.7	18.5	19.2	19.6
	6H	18.5	19.1	19.0	19.6	20.0	18.5	19.1	19.0	19.6	20.1
	8H	18.7	19.2	19.2	19.7	20.2	18.7	19.2	19.2	19.7	20.2
	12H	18.8	19.2	19.3	19.7	20.3	18.8	19.2	19.3	19.7	20.3
12H	4H	18.1	18.6	18.5	19.1	19.6	18.1	18.6	18.6	19.1	19.6
	6H	18.5	19.0	19.1	19.5	20.0	18.6	19.1	19.1	19.5	20.1
	8H	18.7	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.3

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 361.412 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.)