



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-930-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](http://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-L15-930-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	789
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	13.8
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	7008	6960	6987
55	6211	6220	6237
65	4931	4931	4976
75	3729	3766	3766
85	2259	2148	2204

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
<b>0</b>	528.983	528.983	528.983	528.983	528.983
<b>5</b>	523.178	532.778	533.559	529.876	527.420
<b>10</b>	522.285	523.178	525.076	522.397	520.499
<b>15</b>	515.588	508.221	512.797	511.681	506.212
<b>20</b>	504.872	500.072	501.858	501.747	503.086
<b>25</b>	492.705	492.929	492.036	489.580	488.910
<b>30</b>	414.457	417.471	416.690	415.350	419.927
<b>35</b>	171.342	170.114	170.449	171.007	169.891
<b>40</b>	120.888	119.214	119.214	118.990	120.218
<b>45</b>	115.195	114.637	114.414	114.749	114.860
<b>50</b>	102.359	102.024	102.247	102.359	102.024
<b>55</b>	82.824	83.829	82.936	83.048	83.159
<b>60</b>	64.965	63.849	64.853	64.853	64.072
<b>65</b>	48.445	48.221	48.445	48.333	48.891
<b>70</b>	34.157	34.715	34.715	34.268	34.715
<b>75</b>	22.436	22.325	22.660	22.548	22.660
<b>80</b>	12.725	12.390	12.613	12.725	12.613
<b>85</b>	4.577	4.577	4.353	4.577	4.465
<b>90</b>	0.112	0.112	0.223	0.223	0.112

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L15-930-DIM-UNV-OW-OF-WH-TD\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	195.15	N.A.	24.70
0-30	414.24	N.A.	52.50
0-40	549.10	N.A.	69.60
0-60	710.75	N.A.	90.00
0-80	783.52	N.A.	99.20
0-90	789.45	N.A.	100.00
10-90	739.10	N.A.	93.60
20-40	353.95	N.A.	44.80
20-50	441.14	N.A.	55.90
40-70	210.11	N.A.	26.60
60-80	72.77	N.A.	9.20
70-80	24.31	N.A.	3.10
80-90	5.93	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	789.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.35
10-20	144.81
20-30	219.08
30-40	134.86
40-50	87.20
50-60	74.46
60-70	48.46
70-80	24.31
80-90	5.93
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	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	55	78	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	50	48
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	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	16.8	18.1	17.1	18.4	18.7	UGR Viewed Endwise				
	3H	18.1	19.3	18.5	19.6	20.0	16.8	18.1	17.1	18.4	18.7
	4H	18.5	19.6	18.9	20.0	20.4	18.1	19.3	18.5	19.6	20.0
	6H	18.8	19.8	19.2	20.2	20.6	18.5	19.6	18.9	20.0	20.4
	8H	18.9	19.9	19.3	20.2	20.7	18.8	19.9	19.2	20.2	20.6
	12H	18.9	19.9	19.4	20.2	20.7	18.9	19.9	19.3	20.3	20.7

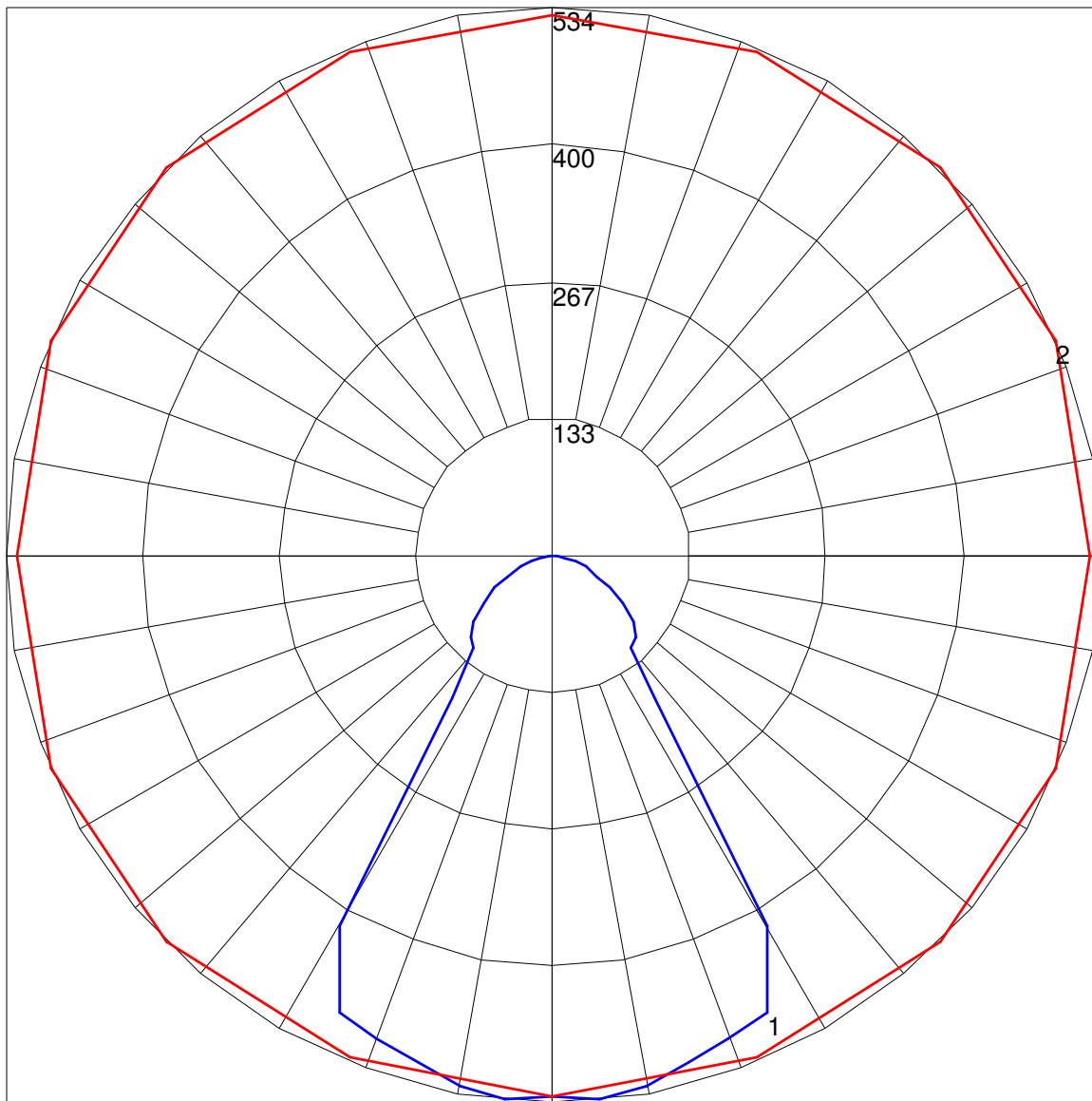
4H	2H	17.2	18.3	17.6	18.7	19.0	16.8	18.1	17.1	18.4	18.7
	3H	18.7	19.6	19.1	20.0	20.4	18.1	19.3	18.5	19.6	20.0
	4H	19.3	20.1	19.7	20.5	20.9	18.5	19.6	18.9	20.0	20.4
	6H	19.7	20.4	20.1	20.8	21.3	18.8	19.9	19.2	20.2	20.6
	8H	19.8	20.4	20.2	20.9	21.3	18.9	19.9	19.3	20.3	20.7
	12H	19.8	20.4	20.3	20.9	21.4	19.0	19.9	19.4	20.3	20.7

8H	4H	19.4	20.1	19.9	20.5	21.0	17.2	18.3	17.6	18.7	19.0
	6H	19.9	20.5	20.4	21.0	21.4	18.7	19.6	19.1	20.0	20.4
	8H	20.1	20.6	20.6	21.1	21.6	19.3	20.1	19.7	20.5	21.0
	12H	20.2	20.6	20.7	21.1	21.7	19.7	20.4	20.2	20.8	21.3

12H	4H	19.4	20.0	19.9	20.5	21.0	19.8	20.5	20.3	20.9	21.4
	6H	19.9	20.4	20.5	20.9	21.4	19.9	20.4	20.3	20.9	21.4
	8H	20.1	20.6	20.7	21.1	21.6	19.5	20.1	19.9	20.6	21.0

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 533.559 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.)