



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-930-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-L30-930-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	1615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	26.9
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	14334	14237	14292
55	12705	12722	12756
65	10086	10086	10179
75	7627	7703	7703
85	4620	4395	4508

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	1082.002	1082.002	1082.002	1082.002	1082.002
5	1070.130	1089.765	1091.363	1083.829	1078.806
10	1068.303	1070.130	1074.011	1068.532	1064.650
15	1054.604	1039.535	1048.896	1046.613	1035.425
20	1032.686	1022.868	1026.521	1026.293	1029.032
25	1007.799	1008.255	1006.429	1001.406	1000.036
30	847.747	853.912	852.314	849.574	858.935
35	350.469	347.958	348.643	349.784	347.501
40	247.269	243.844	243.844	243.388	245.899
45	235.625	234.483	234.027	234.712	234.940
50	209.368	208.683	209.140	209.368	208.683
55	169.412	171.467	169.641	169.869	170.097
60	132.881	130.598	132.653	132.653	131.055
65	99.090	98.634	99.090	98.862	100.004
70	69.866	71.007	71.007	70.094	71.007
75	45.892	45.664	46.349	46.120	46.349
80	26.028	25.343	25.800	26.028	25.800
85	9.361	9.361	8.904	9.361	9.133
90	0.228	0.228	0.457	0.457	0.228

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.17	N.A.	24.70
0-30	847.30	N.A.	52.50
0-40	1123.15	N.A.	69.60
0-60	1453.8	N.A.	90.00
0-80	1602.64	N.A.	99.20
0-90	1614.77	N.A.	100.00
10-90	1511.79	N.A.	93.60
20-40	723.98	N.A.	44.80
20-50	902.33	N.A.	55.90
40-70	429.77	N.A.	26.60
60-80	148.84	N.A.	9.20
70-80	49.72	N.A.	3.10
80-90	12.13	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	1614.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.98
10-20	296.19
20-30	448.12
30-40	275.85
40-50	178.35
50-60	152.30
60-70	99.12
70-80	49.72
80-90	12.13
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	68	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	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	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

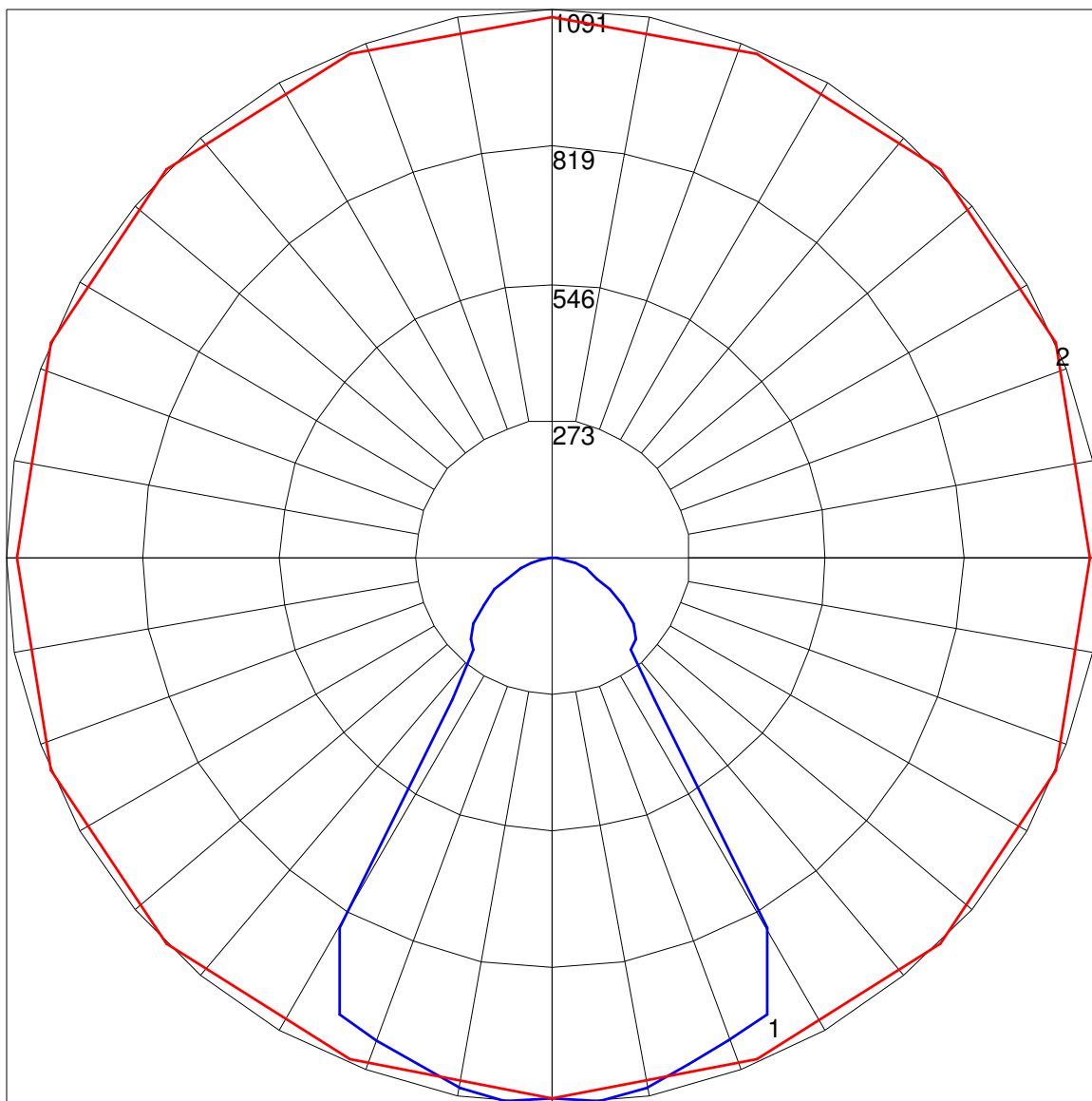
X=2H	Y=2H	19.3	20.6	19.6	20.9	21.2	19.3	20.6	19.7	20.9	21.2
	3H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	4H	21.0	22.1	21.4	22.5	22.9	21.0	22.2	21.5	22.5	22.9
	6H	21.3	22.3	21.7	22.7	23.1	21.3	22.4	21.8	22.7	23.1
	8H	21.4	22.4	21.8	22.8	23.2	21.4	22.4	21.8	22.8	23.2
	12H	21.4	22.4	21.9	22.7	23.2	21.5	22.4	21.9	22.8	23.2

UGR Viewed Endwise

4H	2H	19.7	20.8	20.1	21.2	21.5	19.7	20.8	20.1	21.2	21.5
	3H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
	4H	21.8	22.6	22.2	23.0	23.4	21.8	22.6	22.2	23.0	23.5
	6H	22.2	22.9	22.6	23.3	23.8	22.2	22.9	22.7	23.3	23.8
	8H	22.3	22.9	22.7	23.4	23.9	22.3	23.0	22.8	23.4	23.9
	12H	22.3	22.9	22.8	23.4	23.9	22.4	22.9	22.8	23.4	23.9
8H	4H	21.9	22.6	22.4	23.1	23.5	22.0	22.6	22.4	23.1	23.5
	6H	22.4	23.0	22.9	23.5	23.9	22.4	23.0	22.9	23.5	24.0
	8H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
	12H	22.7	23.1	23.2	23.6	24.2	22.7	23.2	23.2	23.6	24.2
12H	4H	22.0	22.5	22.4	23.0	23.5	22.0	22.5	22.5	23.0	23.5
	6H	22.5	22.9	23.0	23.4	23.9	22.5	23.0	23.0	23.4	24.0
	8H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1091.363 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.)