



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-2-L27-840-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20306.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 12-03-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2' WALL MNT BED LIGHT LED
 [MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM
 [LUMCAT] 29-2-L27-840-AF-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Corridor, Healthcare, Direct-Indirect
 [_SEARCH_MOUNTING] Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	21.4
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.40 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.23 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9134	6804	3919
55	9796	7158	3748
65	9191	6665	3432
75	8423	5644	3030
85	7490	4763	2472

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	286.719	286.719	286.719	286.719	286.719	286.719	286.719	286.719	286.719
5	282.902	277.051	281.376	276.542	289.008	252.882	243.978	235.328	232.530
10	322.845	311.651	305.799	287.227	288.245	247.794	232.530	221.844	219.300
15	372.454	356.427	332.767	297.658	286.719	241.179	219.300	209.124	204.290
20	434.021	408.580	365.840	307.835	283.666	230.240	205.053	192.842	188.517
25	507.545	475.235	400.694	318.520	278.069	219.300	189.789	175.033	169.691
30	579.797	538.329	439.873	325.643	270.182	206.071	170.708	154.172	147.303
35	651.541	599.896	477.016	330.477	259.242	187.754	150.101	132.801	124.660
40	711.327	653.322	507.291	329.968	245.250	167.401	128.222	110.922	102.018
45	750.760	689.702	527.898	324.371	227.441	146.285	107.869	90.061	81.411
50	769.077	704.712	530.697	310.379	206.834	124.660	86.499	69.454	62.076
55	755.594	689.702	513.906	289.771	184.192	104.308	66.655	51.391	45.030
60	706.239	645.944	476.253	261.023	159.514	83.192	47.829	33.328	27.731
65	640.855	585.394	425.371	224.897	133.056	63.348	30.275	17.809	12.720
70	576.236	523.064	366.094	186.990	107.360	43.249	12.975	2.290	0.000
75	507.037	448.777	304.273	150.101	82.428	24.678	0.000	0.000	0.000
80	431.477	375.253	248.557	115.502	59.277	7.123	0.000	0.000	0.000
85	365.840	319.283	201.746	84.718	36.635	3.307	0.000	0.000	0.000
90	319.283	271.454	163.330	61.821	31.038	4.579	0.000	0.000	0.763
95	312.923	266.366	158.751	69.454	48.338	17.300	7.123	8.904	9.668
100	309.361	262.804	168.927	92.859	65.892	30.529	21.625	19.081	14.247
105	311.651	277.305	199.711	120.081	82.937	43.758	35.363	34.091	19.335
110	342.434	308.852	238.890	153.408	104.562	52.408	49.610	50.373	50.882
115	390.772	356.935	291.044	195.895	129.748	59.786	62.330	67.927	69.962
120	431.986	404.764	355.663	249.829	157.479	64.620	66.655	84.464	87.517
125	493.044	468.112	416.721	304.273	185.210	74.033	68.690	92.096	99.983
130	564.278	539.346	485.412	349.049	212.431	86.499	74.796	88.280	107.869
135	630.679	602.694	541.127	388.991	238.381	95.403	81.665	76.577	110.668
140	674.692	646.707	575.981	414.432	257.716	98.456	86.499	74.796	108.633
145	689.448	659.936	563.261	420.538	271.708	110.922	90.315	77.340	96.675
150	666.551	639.329	565.296	415.195	281.885	124.660	90.315	84.209	70.217
155	612.616	592.009	526.372	397.386	285.192	146.031	90.061	88.534	57.751
160	542.399	520.520	472.437	374.998	286.973	167.655	103.544	91.078	65.637
165	461.752	443.689	417.230	346.759	287.736	196.658	135.091	99.219	84.718
170	372.200	364.822	353.628	316.230	288.754	218.537	180.121	135.345	119.572
175	291.552	288.754	296.386	289.771	290.280	244.232	226.678	204.290	182.411
180	282.139	282.139	282.139	282.139	282.139	282.139	282.139	282.139	282.139

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	105.07	N.A.	3.80
0-30	243.64	N.A.	8.90
0-40	441.39	N.A.	16.10
0-60	940.15	N.A.	34.30
0-80	1331.42	N.A.	48.60
0-90	1446.31	N.A.	52.80
10-90	1420.59	N.A.	51.80
20-40	336.32	N.A.	12.30
20-50	579.61	N.A.	21.10
40-70	722.31	N.A.	26.40
60-80	391.27	N.A.	14.30
70-80	167.72	N.A.	6.10
80-90	114.89	N.A.	4.20
90-110	230.62	N.A.	8.40
90-120	403.59	N.A.	14.70
90-130	616.95	N.A.	22.50
90-150	1048.66	N.A.	38.30
90-180	1294.58	N.A.	47.20
110-180	1063.95	N.A.	38.80
0-180	2740.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.73
10-20	79.35
20-30	138.57
30-40	197.75
40-50	243.29
50-60	255.46
60-70	223.56
70-80	167.72
80-90	114.89
90-100	101.96
100-110	128.66
110-120	172.97
120-130	213.36
130-140	229.74
140-150	201.97
150-160	142.26
160-170	78.48
170-180	25.17

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	96	91	86	82	89	84	80	76	71	68	65	59	57	55	49	47	45	40
2	87	78	71	65	80	72	66	61	61	56	52	51	47	44	41	39	36	32
3	78	68	59	53	72	62	55	49	53	47	42	44	40	36	36	32	30	25
4	71	59	50	44	65	55	47	41	46	40	35	38	34	30	31	28	25	21
5	65	52	43	37	59	48	40	34	41	35	30	34	29	25	28	24	21	17
6	60	46	38	31	55	43	35	29	36	30	25	30	25	22	25	21	18	15
7	55	42	33	27	50	39	31	25	33	27	22	27	22	19	22	18	15	13
8	51	38	29	24	47	35	27	22	30	24	19	25	20	16	20	16	14	11
9	47	34	26	21	43	32	24	20	27	21	17	23	18	15	19	15	12	10
10	44	31	24	18	40	29	22	17	25	19	15	21	16	13	17	13	11	9

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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

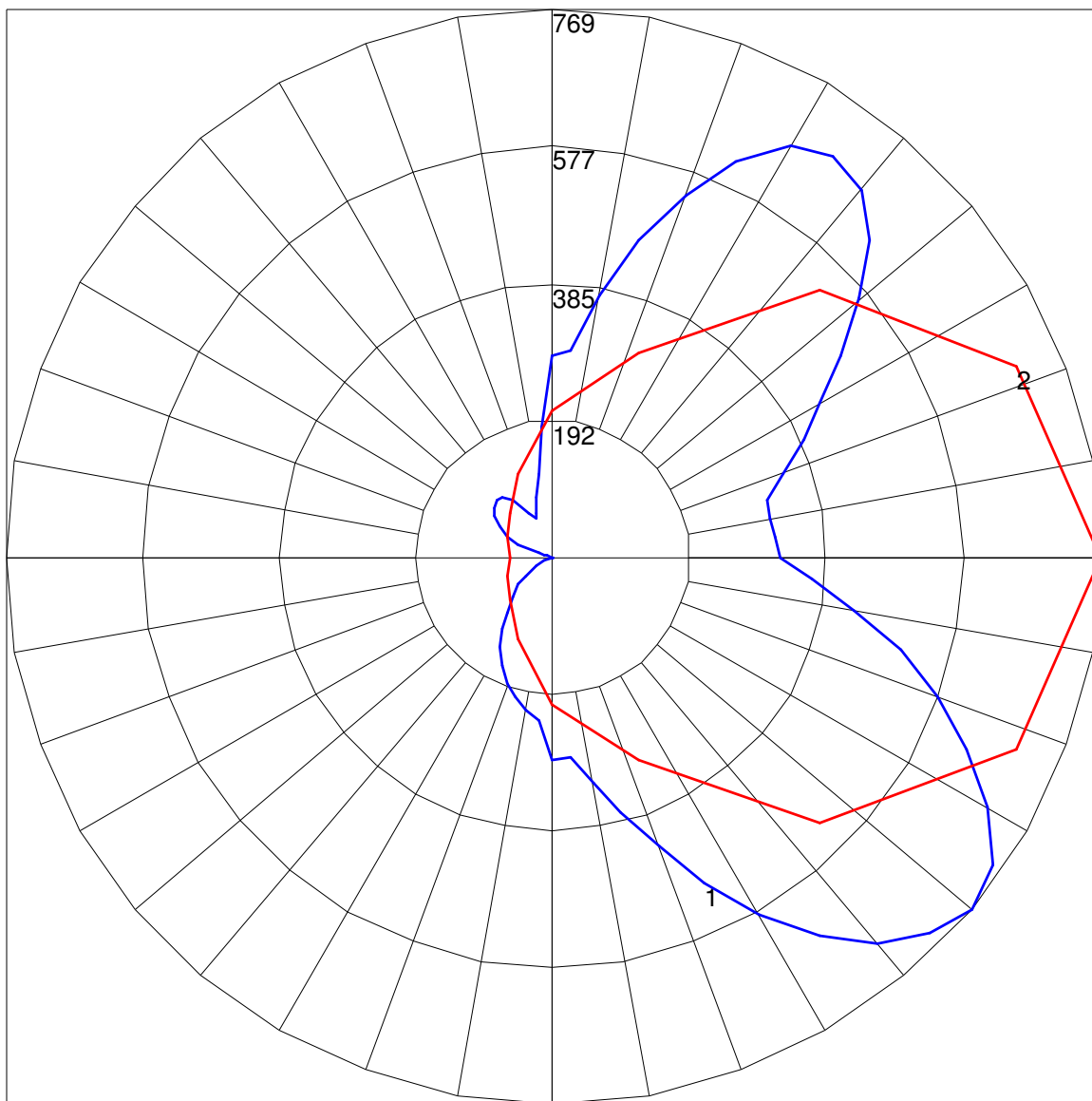
X=2H	Y=2H	20.7	21.7	21.7	22.7	23.9	11.2	12.1	12.1	13.1	14.3
	3H	23.4	24.3	24.3	25.2	26.5	12.6	13.5	13.5	14.5	15.7
	4H	24.6	25.5	25.5	26.4	27.7	13.1	14.0	14.1	14.9	16.2
	6H	25.8	26.6	26.8	27.6	28.8	13.5	14.3	14.4	15.2	16.5
	8H	26.4	27.2	27.4	28.1	29.4	13.6	14.4	14.6	15.3	16.6
	12H	27.0	27.7	28.0	28.7	30.0	13.7	14.4	14.7	15.4	16.7

UGR Viewed Endwise

4H	2H	20.9	21.7	21.8	22.7	24.0	13.4	14.2	14.3	15.2	16.5
	3H	23.8	24.5	24.7	25.5	26.8	14.9	15.6	15.8	16.6	17.9
	4H	25.2	25.9	26.2	26.9	28.1	15.4	16.1	16.4	17.0	18.3
	6H	26.6	27.2	27.6	28.2	29.5	15.8	16.3	16.7	17.3	18.6
	8H	27.3	27.9	28.3	28.9	30.2	15.9	16.4	16.9	17.4	18.7
	12H	28.0	28.5	29.0	29.6	30.9	16.0	16.5	17.0	17.5	18.8
8H	4H	25.3	25.8	26.3	26.8	28.1	16.8	17.3	17.8	18.3	19.6
	6H	26.8	27.3	27.9	28.3	29.6	17.3	17.8	18.3	18.8	20.1
	8H	27.7	28.1	28.7	29.1	30.4	17.5	17.9	18.5	19.0	20.3
	12H	28.6	29.0	29.6	30.0	31.4	17.6	18.0	18.7	19.0	20.4
12H	4H	25.2	25.7	26.2	26.7	28.1	17.2	17.7	18.2	18.7	20.0
	6H	26.8	27.3	27.8	28.3	29.6	17.9	18.3	18.9	19.3	20.7
	8H	27.7	28.1	28.7	29.1	30.5	18.2	18.5	19.2	19.6	20.9

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 769.077 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)