



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-3-L40-940-AF-(L25)- 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] 05-16-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 3' WALL MNT BED LIGHT LED
 [MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM
 [LUMCAT] 29-3-L40-940-A-(L25)-DIM UNV
 [LAMPCAT] HLM 90 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	2139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	17.9
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)	0.66 ft
Luminous Width (90-270)	3.05 ft
Luminous Height	0.42 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2689	2000	1174
55	2858	2083	1114
65	2654	1916	1009
75	2400	1597	872
85	2094	1317	675

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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	223.747	223.747	223.747	223.747	223.747	223.747	223.747	223.747	223.747
5	220.769	216.203	219.578	215.806	225.534	197.342	190.394	183.643	181.460
10	251.939	243.204	238.637	224.144	224.938	193.372	181.460	173.121	171.136
15	290.653	278.145	259.682	232.284	223.747	188.210	171.136	163.195	159.422
20	338.698	318.845	285.491	240.226	221.365	179.673	160.018	150.488	147.113
25	396.074	370.861	312.690	248.564	216.997	171.136	148.106	136.591	132.422
30	452.458	420.097	343.264	254.123	210.843	160.812	133.216	120.311	114.951
35	508.444	468.142	372.250	257.895	202.306	146.518	117.135	103.634	97.281
40	555.100	509.834	395.876	257.498	191.386	130.635	100.061	86.561	79.612
45	585.872	538.224	411.957	253.130	177.489	114.157	84.178	70.281	63.531
50	600.167	549.938	414.141	242.211	161.408	97.281	67.501	54.200	48.442
55	589.645	538.224	401.038	226.130	143.738	81.399	52.016	40.104	35.140
60	551.129	504.077	371.655	203.695	124.481	64.920	37.324	26.008	21.640
65	500.106	456.826	331.948	175.504	103.833	49.435	23.625	13.897	9.927
70	449.678	408.185	285.690	145.922	83.781	33.751	10.125	1.787	0.000
75	395.677	350.213	237.446	117.135	64.325	19.258	0.000	0.000	0.000
80	336.713	292.837	193.967	90.134	46.258	5.559	0.000	0.000	0.000
85	285.491	249.160	157.437	66.112	28.589	2.581	0.000	0.000	0.000
90	249.160	211.835	127.459	48.244	24.221	3.574	0.000	0.000	0.596
95	244.196	207.865	123.885	54.200	37.721	13.500	5.559	6.949	7.544
100	241.417	205.085	131.826	72.465	51.420	23.824	16.875	14.890	11.118
105	243.204	216.402	155.849	93.708	64.722	34.148	27.596	26.603	15.089
110	267.226	241.020	186.423	119.716	81.597	40.898	38.714	39.310	39.707
115	304.947	278.543	227.122	152.871	101.252	46.655	48.641	53.008	54.597
120	337.110	315.867	277.550	194.960	122.892	50.428	52.016	65.913	68.296
125	384.758	365.302	325.198	237.446	144.532	57.773	53.604	71.869	78.024
130	440.347	420.891	378.802	272.388	165.775	67.501	58.369	68.891	84.178
135	492.165	470.326	422.281	303.558	186.026	74.450	63.729	59.759	86.362
140	526.511	504.672	449.480	323.411	201.114	76.832	67.501	58.369	84.774
145	538.026	514.996	439.553	328.176	212.034	86.561	70.479	60.354	75.443
150	520.158	498.915	441.141	324.007	219.975	97.281	70.479	65.715	54.795
155	478.069	461.987	410.766	310.109	222.556	113.958	70.281	69.090	45.067
160	423.273	406.200	368.677	292.638	223.946	130.834	80.803	71.075	51.222
165	360.338	346.242	325.595	270.601	224.541	153.466	105.421	77.428	66.112
170	290.455	284.697	275.962	246.777	225.336	170.540	140.562	105.620	93.311
175	227.519	225.336	231.292	226.130	226.527	190.592	176.893	159.422	142.349
180	220.174	220.174	220.174	220.174	220.174	220.174	220.174	220.174	220.174

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	82.00	N.A.	3.80
0-30	190.13	N.A.	8.90
0-40	344.45	N.A.	16.10
0-60	733.67	N.A.	34.30
0-80	1039.01	N.A.	48.60
0-90	1128.66	N.A.	52.80
10-90	1108.59	N.A.	51.80
20-40	262.45	N.A.	12.30
20-50	452.31	N.A.	21.10
40-70	563.67	N.A.	26.40
60-80	305.34	N.A.	14.30
70-80	130.88	N.A.	6.10
80-90	89.66	N.A.	4.20
90-110	179.97	N.A.	8.40
90-120	314.95	N.A.	14.70
90-130	481.45	N.A.	22.50
90-150	818.35	N.A.	38.30
90-180	1010.25	N.A.	47.20
110-180	830.28	N.A.	38.80
0-180	2138.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.08
10-20	61.92
20-30	108.13
30-40	154.32
40-50	189.86
50-60	199.36
60-70	174.46
70-80	130.88
80-90	89.66
90-100	79.56
100-110	100.41
110-120	134.98
120-130	166.50
130-140	179.28
140-150	157.61
150-160	111.02
160-170	61.24
170-180	19.64

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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

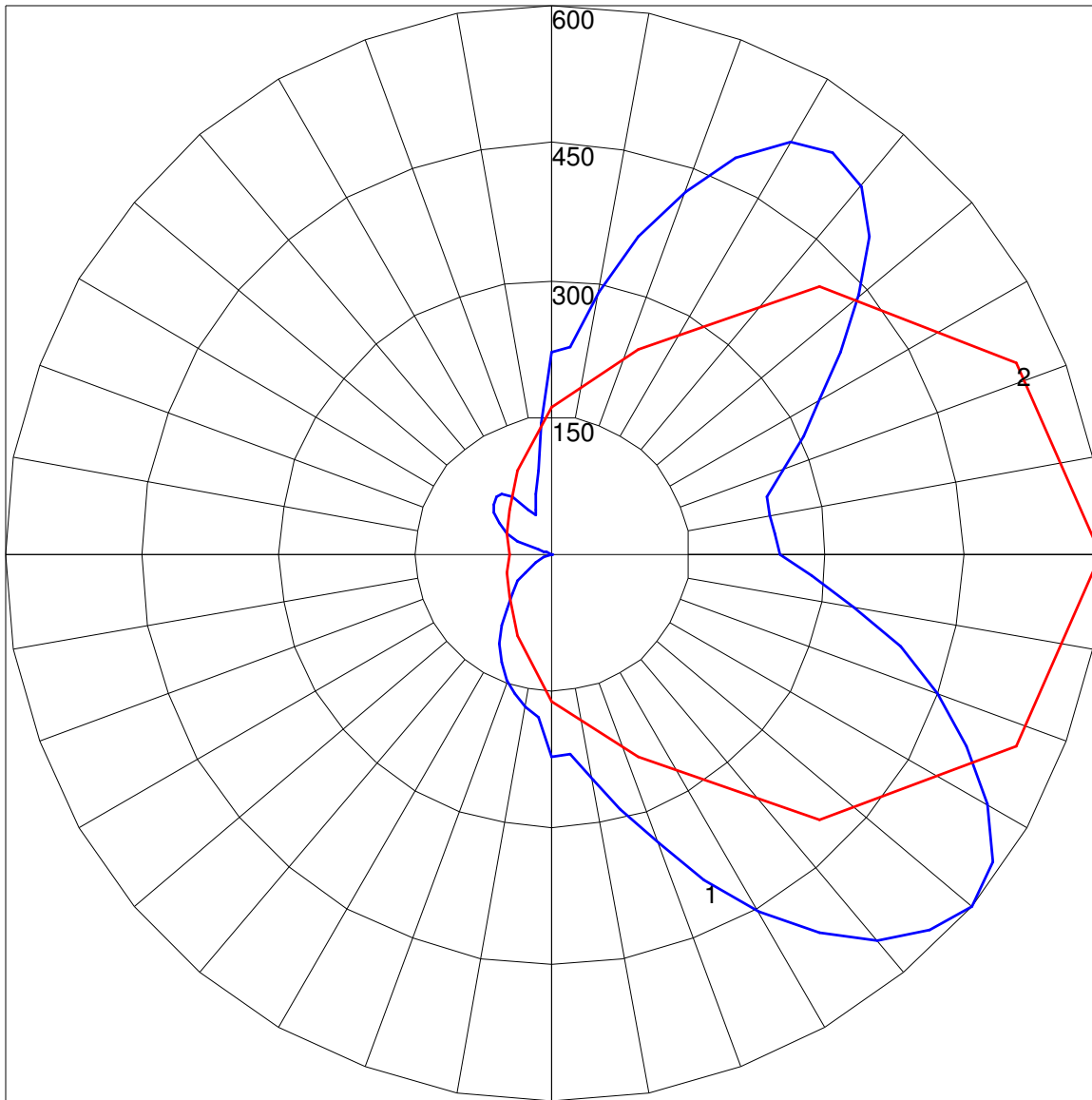
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.4	17.4	17.3	18.3	19.6	6.8	7.8	7.7	8.7	10.0
	3H	19.0	19.9	20.0	20.9	22.1	8.3	9.1	9.2	10.1	11.3
	4H	20.3	21.1	21.2	22.1	23.3	8.8	9.6	9.7	10.6	11.8
	6H	21.4	22.2	22.4	23.2	24.5	9.1	9.9	10.1	10.9	12.1
	8H	22.0	22.8	23.0	23.8	25.0	9.2	10.0	10.2	11.0	12.2
	12H	22.6	23.3	23.6	24.3	25.6	9.3	10.0	10.3	11.0	12.3
4H	2H	16.6	17.4	17.5	18.4	19.6	9.0	9.9	10.0	10.9	12.1
	3H	19.4	20.2	20.4	21.1	22.4	10.5	11.3	11.5	12.2	13.5
	4H	20.9	21.5	21.8	22.5	23.8	11.0	11.7	12.0	12.7	14.0
	6H	22.2	22.8	23.2	23.8	25.1	11.4	12.0	12.4	13.0	14.3
	8H	22.9	23.5	23.9	24.5	25.8	11.5	12.0	12.5	13.0	14.3
	12H	23.6	24.1	24.6	25.1	26.4	11.6	12.1	12.6	13.1	14.4
8H	4H	20.9	21.5	21.9	22.5	23.8	12.4	13.0	13.4	14.0	15.3
	6H	22.5	22.9	23.5	24.0	25.3	12.9	13.4	13.9	14.4	15.7
	8H	23.3	23.7	24.3	24.7	26.0	13.1	13.5	14.1	14.6	15.9
	12H	24.2	24.5	25.2	25.6	26.9	13.2	13.6	14.2	14.6	16.0
12H	4H	20.9	21.4	21.9	22.4	23.7	12.8	13.3	13.8	14.3	15.6
	6H	22.4	22.9	23.5	23.9	25.2	13.5	13.9	14.5	14.9	16.2
	8H	23.3	23.7	24.3	24.7	26.1	13.7	14.1	14.8	15.1	16.5

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 600.167 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.)