



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L115-930-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 18635.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 2024-01-08  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 4'SUSPENDED INDUSTRIAL LED LUMINAIRE  
[MORE] WHITE REFLECTOR w/OPEN BOTTOM  
[MORE] 0-10V DIMMING DRIVER  
[LUMCAT] 80-4-L115-930-DIM-UNV  
[LAMPCAT] HLM 90 CRI 3000K CCT  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] INDOOR  
[\_SEARCH\_MOUNTING] SUSPENDED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	73.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9867	9627	9602
55	9507	9298	9259
65	9055	8855	4733
75	7281	4045	775
85	3272	1431	1073

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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>
<b>0</b>	3417.681	3417.681	3417.681	3417.681	3417.681
<b>5</b>	3377.080	3365.480	3355.330	3368.380	3382.880
<b>10</b>	3308.930	3297.330	3349.530	3358.230	3324.880
<b>15</b>	3232.079	3265.429	3229.179	3203.079	3203.079
<b>20</b>	3134.928	3207.429	3104.478	3088.528	3088.528
<b>25</b>	3008.777	3024.727	2973.977	2965.277	2965.277
<b>30</b>	2847.826	2823.175	2804.325	2794.175	2791.275
<b>35</b>	2676.724	2652.074	2630.324	2627.424	2621.624
<b>40</b>	2488.222	2447.622	2436.022	2431.672	2428.772
<b>45</b>	2270.720	2224.320	2215.620	2212.720	2209.820
<b>50</b>	2016.968	1983.618	1973.468	1970.568	1970.568
<b>55</b>	1774.816	1738.566	1735.666	1728.416	1728.416
<b>60</b>	1499.313	1471.763	1468.863	1463.063	1458.713
<b>65</b>	1245.561	1220.911	1218.011	938.158	651.056
<b>70</b>	951.209	929.458	743.857	504.605	514.755
<b>75</b>	613.356	613.356	340.753	294.353	65.251
<b>80</b>	324.803	210.252	59.451	49.300	49.300
<b>85</b>	92.801	49.300	40.600	30.450	30.450
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1233.7	N.A.	13.60
0-30	2608.88	N.A.	28.70
0-40	4259.54	N.A.	46.80
0-60	7523.43	N.A.	82.70
0-80	9035.94	N.A.	99.30
0-90	9095.13	N.A.	100.00
10-90	8774.42	N.A.	96.50
20-40	3025.84	N.A.	33.30
20-50	4739.31	N.A.	52.10
40-70	4342.37	N.A.	47.70
60-80	1512.5	N.A.	16.60
70-80	434.03	N.A.	4.80
80-90	59.20	N.A.	0.70
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	9095.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	320.71
10-20	912.99
20-30	1375.18
30-40	1650.65
40-50	1713.47
50-60	1550.42
60-70	1078.47
70-80	434.03
80-90	59.20
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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**UGR TABLE - CORRECTED**

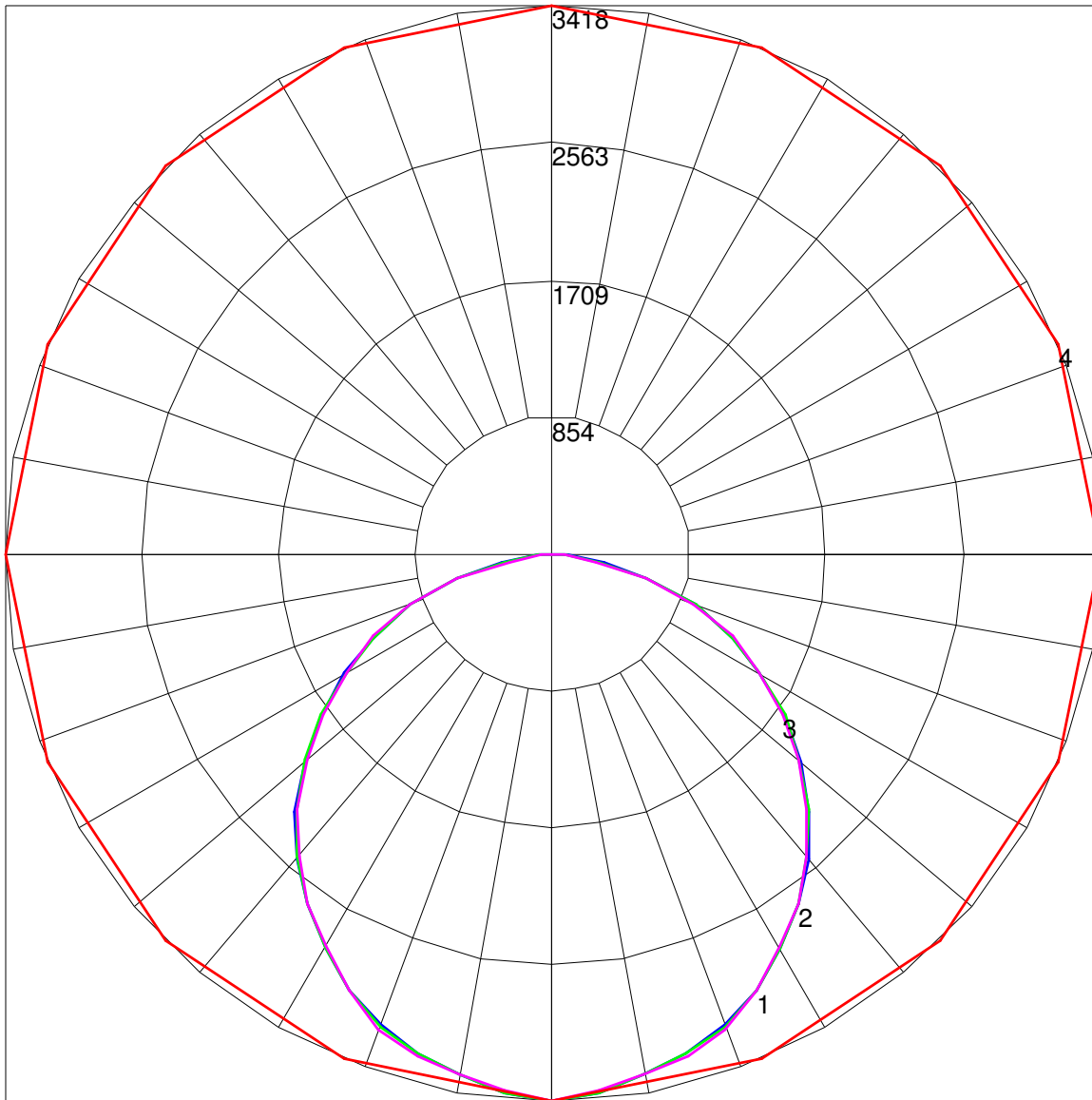
Reflectances

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	20.2	21.8	20.6	22.1	22.4	20.1	21.7	20.5	22.1	22.4
	3H	22.1	23.5	22.5	23.9	24.2	20.8	22.3	21.2	22.6	23.0
	4H	22.7	24.1	23.1	24.4	24.8	20.9	22.2	21.3	22.6	23.0
	6H	23.1	24.3	23.5	24.7	25.1	20.8	22.1	21.2	22.5	22.8
	8H	23.1	24.3	23.6	24.7	25.1	20.8	22.0	21.2	22.4	22.8
	12H	23.2	24.3	23.6	24.7	25.1	20.8	21.9	21.2	22.3	22.7
4H	2H	20.9	22.2	21.3	22.6	23.0	20.8	22.2	21.2	22.5	22.9
	3H	22.9	24.0	23.3	24.4	24.8	21.6	22.8	22.1	23.2	23.6
	4H	23.6	24.6	24.0	25.0	25.5	21.8	22.8	22.2	23.2	23.6
	6H	24.0	24.9	24.5	25.3	25.8	21.7	22.6	22.2	23.1	23.5
	8H	24.1	24.9	24.6	25.4	25.8	21.7	22.6	22.2	23.0	23.5
	12H	24.2	24.9	24.6	25.4	25.8	21.7	22.4	22.2	22.9	23.4
8H	4H	23.7	24.5	24.1	24.9	25.4	21.9	22.8	22.4	23.2	23.7
	6H	24.1	24.7	24.6	25.2	25.7	21.9	22.6	22.4	23.1	23.6
	8H	24.2	24.8	24.7	25.3	25.8	21.9	22.5	22.4	23.0	23.5
	12H	24.2	24.8	24.7	25.3	25.8	21.9	22.4	22.4	22.9	23.5
12H	4H	23.6	24.4	24.1	24.8	25.3	21.9	22.7	22.4	23.1	23.6
	6H	24.1	24.7	24.6	25.1	25.7	21.9	22.5	22.5	23.0	23.5
	8H	24.2	24.7	24.7	25.2	25.8	21.9	22.4	22.4	22.9	23.5

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 3417.681 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)