



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L49-835-RA-EM10W-DIM-UNV_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19535.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 11-17-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 1030mA
 [LUMCAT] PTS-24-L49-835-RA-EM10W-DIM-UNV
 [LAMPCAT] M10CC840D56N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	571	616	652
55	495	560	614
65	436	539	621
75	330	525	665
85	195	700	822

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	500.669	500.669	500.669	500.669	500.669
5	498.203	498.203	498.203	498.427	498.427
10	489.683	489.683	490.131	491.028	491.476
15	465.692	466.365	467.710	469.728	470.625
20	456.499	457.844	461.208	464.347	465.243
25	412.105	414.123	419.055	423.315	425.109
30	380.491	383.630	389.908	396.858	399.100
35	346.410	350.670	359.415	367.935	371.522
40	310.760	316.141	328.025	338.338	342.150
45	281.837	289.011	304.258	317.262	321.971
50	240.357	247.756	264.572	278.473	284.303
55	198.429	206.052	224.214	240.357	245.962
60	160.089	168.609	186.546	202.913	208.743
65	128.699	138.116	158.968	177.129	183.183
70	93.273	104.708	126.681	145.290	151.793
75	59.641	72.197	94.842	113.228	120.179
80	32.959	48.879	72.645	90.807	97.085
85	11.883	27.578	42.601	48.879	50.000
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	180.72	N.A.	13.60
0-30	375.36	N.A.	28.30
0-40	600.24	N.A.	45.30
0-60	1031.67	N.A.	77.80
0-80	1286.71	N.A.	97.00
0-90	1326.01	N.A.	100.00
10-90	1278.7	N.A.	96.40
20-40	419.51	N.A.	31.60
20-50	650.67	N.A.	49.10
40-70	586.35	N.A.	44.20
60-80	255.04	N.A.	19.20
70-80	100.13	N.A.	7.60
80-90	39.30	N.A.	3.00
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	1326.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.31
10-20	133.42
20-30	194.64
30-40	224.87
40-50	231.16
50-60	200.28
60-70	154.91
70-80	100.13
80-90	39.30
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	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

X=2H	Y=2H	9.2	10.8	9.5	11.1	11.4	10.4	12.1	10.8	12.4	12.7
	3H	10.8	12.3	11.2	12.6	13.0	12.7	14.2	13.0	14.5	14.8
	4H	11.4	12.8	11.8	13.1	13.5	13.6	15.0	14.0	15.4	15.8
	6H	11.7	13.0	12.1	13.4	13.8	14.6	16.0	15.1	16.3	16.7
	8H	11.8	13.1	12.3	13.5	13.9	15.1	16.3	15.5	16.7	17.1
	12H	11.9	13.1	12.3	13.5	13.9	15.4	16.6	15.9	17.0	17.4

UGR Viewed Endwise

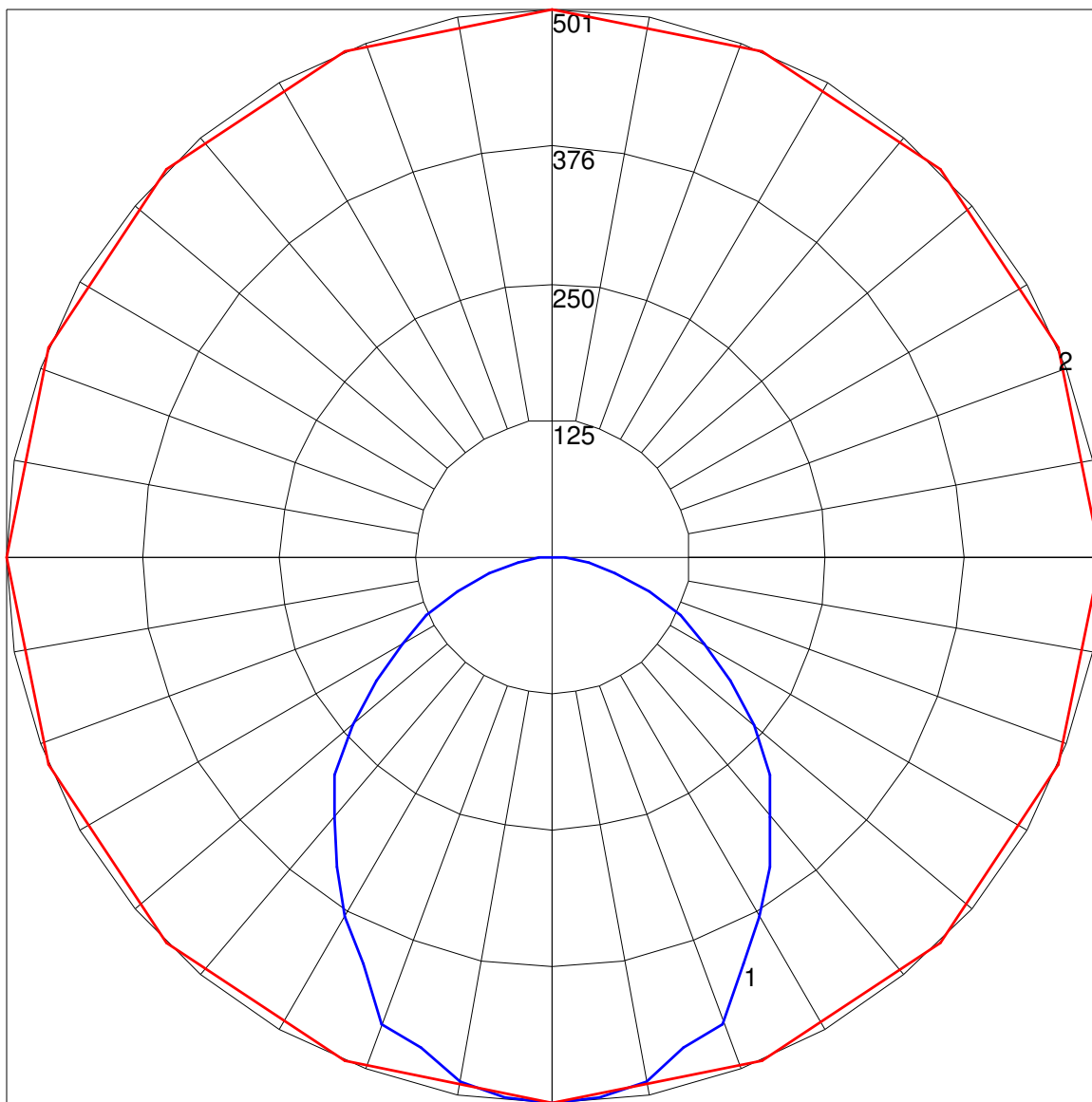
4H	2H	10.0	11.4	10.4	11.8	12.2	11.0	12.4	11.4	12.8	13.1
	3H	11.9	13.1	12.3	13.5	13.9	13.5	14.7	13.9	15.1	15.5
	4H	12.6	13.6	13.0	14.1	14.5	14.6	15.7	15.1	16.1	16.6
	6H	13.1	14.0	13.5	14.5	14.9	15.9	16.8	16.3	17.2	17.7
	8H	13.2	14.1	13.7	14.6	15.0	16.4	17.3	16.8	17.7	18.2
	12H	13.4	14.2	13.9	14.6	15.1	16.8	17.6	17.3	18.1	18.5

8H	4H	13.2	14.1	13.6	14.5	15.0	14.9	15.8	15.4	16.3	16.7
	6H	13.9	14.6	14.4	15.1	15.6	16.4	17.1	16.9	17.6	18.1
	8H	14.2	14.8	14.7	15.4	15.8	17.0	17.7	17.5	18.2	18.7
	12H	14.4	15.0	14.9	15.5	16.0	17.6	18.2	18.1	18.7	19.2

12H	4H	13.3	14.1	13.8	14.6	15.1	15.0	15.8	15.5	16.2	16.7
	6H	14.2	14.8	14.7	15.3	15.8	16.5	17.1	17.0	17.6	18.1
	8H	14.5	15.1	15.1	15.6	16.2	17.2	17.8	17.7	18.3	18.8

Maximum UGR = 19.2

POLAR GRAPH



Maximum Candela = 500.669 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)