IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP2-L150-840-W-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19516.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 06-NOV-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24X14"HIGHBAY
[MORE] LUMINAIRE W/ NO DIFFUSER/OPEN BOTTOM & CENTER DRIVER HOUSING
[LUMCAT] GP2-L150-840-W-DIM-UNV
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended
[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14771
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	107
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	1.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24689	25051	25007
55	23565	23389	24146
65	21021	21444	18011
75	16128	13580	10043
85	5965	6232	4540

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5227.458	5227.458	5227.458	5227.458	5227.458
5	5229.051	5219.497	5213.128	5200.390	5213.128
10	5182.875	5178.098	5168.544	5151.029	5160.583
15	5060.269	5052.308	5080.969	5061.861	5066.638
20	4932.886	4901.041	4924.925	4926.517	4936.071
25	4732.259	4735.444	4740.220	4765.697	4776.843
30	4506.155	4501.378	4545.962	4566.662	4588.954
35	4211.583	4249.798	4273.682	4318.266	4332.597
40	3921.788	3928.157	3980.702	4018.917	4023.694
45	3582.632	3585.817	3635.177	3651.100	3628.808
50	3195.708	3197.300	3221.184	3259.399	3240.292
55	2773.753	2792.861	2753.054	2831.076	2842.222
60	2300.846	2335.876	2308.807	2377.276	2420.267
65	1823.162	1837.492	1859.784	1754.694	1562.028
70	1326.370	1339.108	1254.717	1074.790	1084.343
75	856.647	864.609	721.303	619.397	533.414
80	420.362	348.710	289.795	283.426	275.465
85	106.683	100.314	111.460	89.168	81.206
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1926.15	N.A.	13.00
0-30	4116.01	N.A.	27.90
0-40	6791.69	N.A.	46.00
0-60	12078.23	N.A.	81.80
0-80	14630.44	N.A.	99.10
0-90	14770.56	N.A.	100.00
10-90	14274.38	N.A.	96.60
20-40	4865.54	N.A.	32.90
20-50	7654.56	N.A.	51.80
40-70	7051.77	N.A.	47.70
60-80	2552.21	N.A.	17.30
70-80	786.98	N.A.	5.30
80-90	140.12	N.A.	0.90
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	14770.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	496.18
10-20	1429.97
20-30	2189.86
30-40	2675.69
40-50	2789.01
50-60	2497.52
60-70	1765.23
70-80	786.98
80-90	140.12
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	189	189	189	189	185	185	185	185	177	177	177	169	169	169	162	162	162	159
1	174	167	160	155	170	163	157	152	156	152	147	150	146	143	145	141	139	135
2	159	146	135	127	154	143	133	125	137	129	122	132	125	119	127	122	117	113
3	145	128	116	105	141	126	114	105	121	111	103	117	108	101	113	105	99	96
4	132	114	100	89	129	112	99	89	108	96	88	104	94	86	100	92	85	82
5	122	102	87	77	118	100	86	77	96	85	76	93	83	75	90	81	74	71
6	112	91	77	67	109	90	77	67	87	75	66	84	74	66	82	72	65	62
7	104	83	69	59	101	81	68	59	79	67	59	77	66	58	75	65	58	55
8	97	75	62	53	94	74	62	53	72	61	52	70	60	52	68	59	52	49
9	90	69	56	47	88	68	56	47	66	55	47	65	54	47	63	54	46	44
10	85	64	51	43	83	63	51	43	61	50	43	60	50	42	58	49	42	39

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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	21.6	23.3	22.0	23.6	23.9	21.8	23.4	22.1	23.7	24.0
	3H	23.2	24.7	23.6	25.0	25.4	22.9	24.4	23.3	24.7	25.1
	4H	23.8	25.1	24.2	25.5	25.9	23.2	24.5	23.6	24.9	25.3
	6H	24.0	25.3	24.5	25.7	26.1	23.3	24.6	23.7	24.9	25.3
	8H	24.1	25.3	24.5	25.7	26.1	23.3	24.5	23.8	24.9	25.3
	12H	24.1	25.3	24.6	25.7	26.1	23.3	24.5	23.8	24.9	25.3
4H	2H	22.2	23.6	22.6	24.0	24.3	22.4	23.7	22.7	24.1	24.4
	3H	24.0	25.2	24.4	25.6	26.0	23.7	24.8	24.1	25.2	25.6
	4H	24.7	25.7	25.1	26.1	26.5	24.0	25.0	24.4	25.4	25.9
	6H	25.0	25.9	25.5	26.3	26.8	24.2	25.1	24.7	25.5	26.0
	8H	25.1	25.9	25.5	26.4	26.8	24.2	25.1	24.7	25.5	26.0
	12H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.5	25.9
8H	4H	24.8	25.6	25.3	26.1	26.5	24.2	25.0	24.7	25.5	25.9
	6H	25.2	25.9	25.7	26.4	26.8	24.4	25.1	24.9	25.6	26.1
	8H	25.3	25.9	25.8	26.4	26.9	24.5	25.1	25.0	25.6	26.1
	12H	25.4	25.9	25.9	26.4	26.9	24.5	25.1	25.0	25.6	26.1
12H	4H	24.8	25.5	25.3	26.0	26.5	24.2	24.9	24.7	25.4	25.9
	6H	25.2	25.8	25.7	26.3	26.8	24.4	25.1	25.0	25.5	26.1
	8H	25.3	25.9	25.8	26.3	26.9	24.5	25.1	25.0	25.6	26.1

Maximum UGR = 26.9

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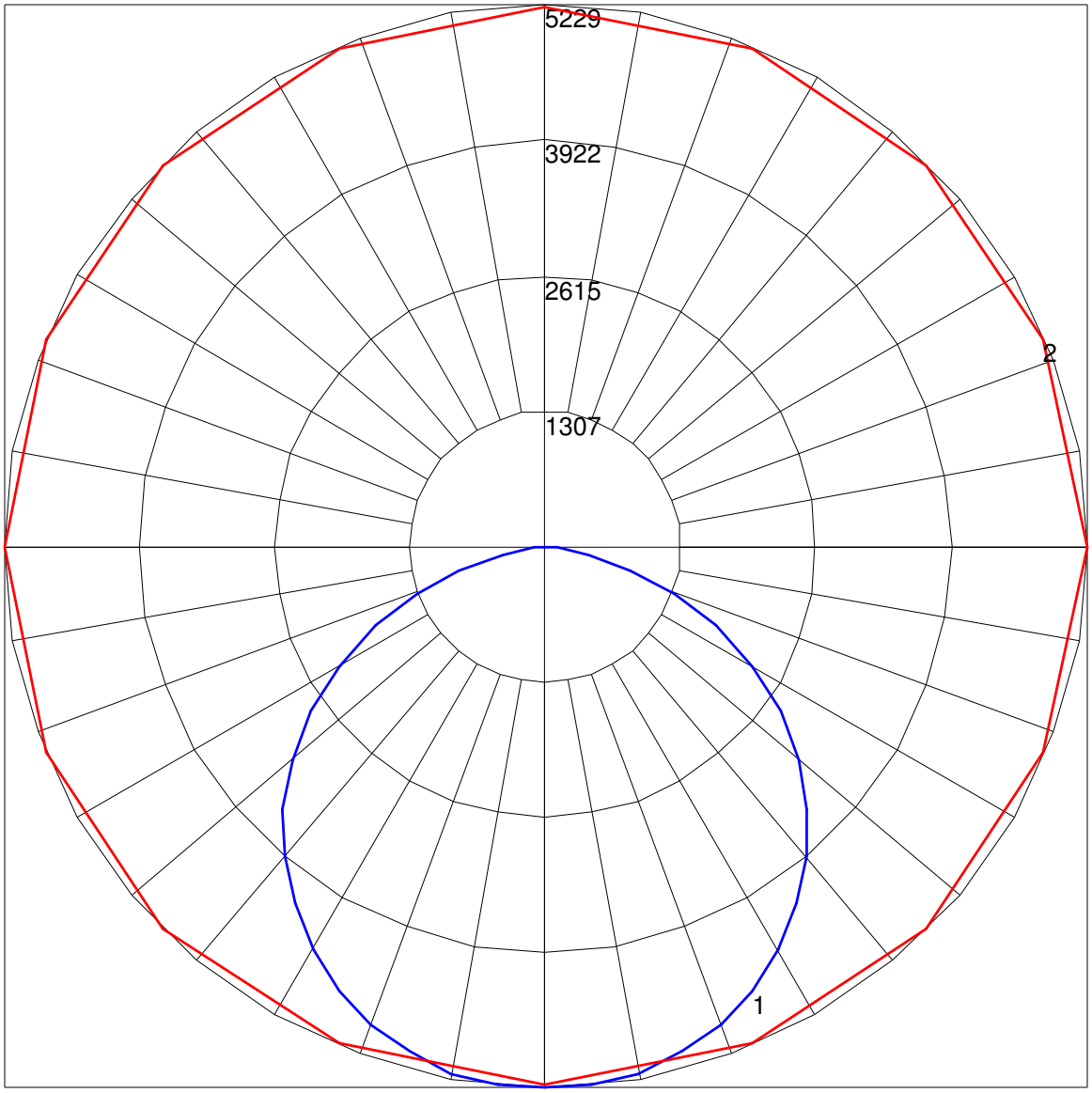
POLAR GRAPH



Maximum Candela = 5229.051 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)