



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19230.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-30-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE w/A-SHAPED
 [MORE] CENTER REFL, FROST ACRYLIC INTERNAL LENS & PERF BASKET
 [MORE] w/ACRYLIC OVERLAY MATERIAL
 [LUMCAT] DIG-S24-L64-940-WPR(L60)-EM10W-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	482	565	637
55	413	560	678
65	353	617	843
75	277	530	444
85	225	251	271

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	392.940	392.940	392.940	392.940	392.940
5	389.601	389.449	389.601	389.601	389.905
10	382.771	383.075	384.137	385.048	385.655
15	372.451	373.058	375.334	377.459	378.825
20	353.631	355.300	359.702	364.407	366.835
25	326.160	328.588	335.115	341.641	344.980
30	300.055	298.386	323.125	342.855	341.944
35	276.075	281.387	295.502	309.768	316.143
40	250.425	258.925	277.896	297.171	305.215
45	232.213	244.354	272.129	296.868	306.885
50	197.001	212.634	245.113	272.736	283.664
55	161.183	180.762	218.857	251.032	264.692
60	127.641	151.318	192.144	229.936	246.176
65	101.688	129.918	177.574	223.865	242.685
70	73.913	103.054	151.166	175.601	167.406
75	48.871	74.672	93.340	76.645	78.315
80	29.747	45.987	40.827	44.166	45.228
85	13.356	13.204	14.874	15.784	16.088
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	142.68	N.A.	12.30
0-30	298.68	N.A.	25.70
0-40	485.25	N.A.	41.80
0-60	884.14	N.A.	76.20
0-80	1140.5	N.A.	98.30
0-90	1159.93	N.A.	100.00
10-90	1122.9	N.A.	96.80
20-40	342.57	N.A.	29.50
20-50	547.91	N.A.	47.20
40-70	567.24	N.A.	48.90
60-80	256.35	N.A.	22.10
70-80	88.00	N.A.	7.60
80-90	19.43	N.A.	1.70
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	1159.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.03
10-20	105.65
20-30	156.00
30-40	186.57
40-50	205.34
50-60	193.55
60-70	168.35
70-80	88.00
80-90	19.43
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES

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	8.7	10.4	9.0	10.7	11.0	11.5	13.2	11.9	13.5	13.8
	3H	10.4	11.9	10.8	12.2	12.6	14.1	15.6	14.5	15.9	16.3
	4H	10.9	12.4	11.3	12.7	13.1	14.5	16.0	14.9	16.3	16.7
	6H	11.4	12.7	11.8	13.1	13.4	14.8	16.1	15.2	16.5	16.9
	8H	11.5	12.7	11.9	13.1	13.5	14.8	16.1	15.3	16.5	16.9
	12H	11.5	12.8	12.0	13.2	13.6	14.9	16.1	15.3	16.5	16.9

UGR Viewed Endwise

4H	2H	10.1	11.5	10.5	11.9	12.2	12.1	13.6	12.5	13.9	14.3
	3H	12.0	13.2	12.4	13.6	14.0	14.9	16.1	15.3	16.5	16.9
	4H	12.7	13.8	13.1	14.2	14.6	15.4	16.5	15.8	16.9	17.3
	6H	13.2	14.2	13.7	14.6	15.1	15.7	16.7	16.2	17.1	17.6
	8H	13.4	14.2	13.8	14.7	15.2	15.8	16.7	16.3	17.2	17.6
	12H	13.4	14.2	13.9	14.7	15.2	15.9	16.7	16.4	17.2	17.6

8H	4H	13.3	14.2	13.7	14.6	15.1	15.6	16.5	16.0	16.9	17.4
	6H	13.9	14.6	14.4	15.1	15.6	16.0	16.7	16.5	17.2	17.7
	8H	14.1	14.8	14.6	15.3	15.8	16.1	16.8	16.6	17.3	17.8
	12H	14.3	14.8	14.8	15.3	15.9	16.3	16.8	16.8	17.3	17.9

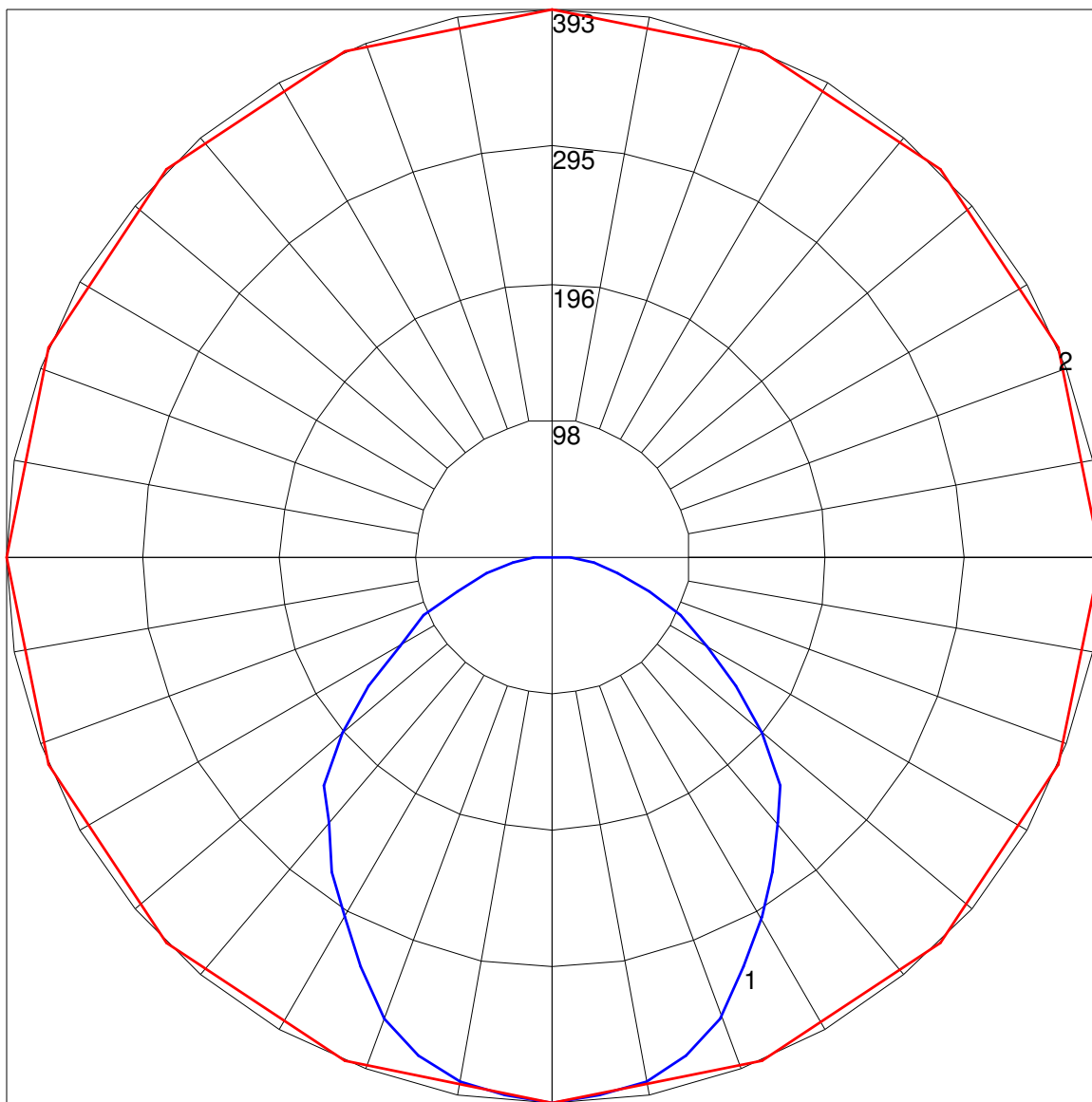
12H	4H	13.3	14.1	13.8	14.6	15.1	15.6	16.4	16.1	16.9	17.3
	6H	14.0	14.6	14.5	15.1	15.6	16.0	16.7	16.5	17.1	17.7
	8H	14.2	14.8	14.7	15.3	15.9	16.2	16.8	16.7	17.3	17.8

Maximum UGR = 17.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES

POLAR GRAPH



Maximum Candela = 392.94 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.)