

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY88WDMV40K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] CBF22LY88WDMV40K
 [TESTDATE] 22-Nov-2023 11:01:27
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 11/22/2023 11:37:46 AM
 [MANUFAC] SAYLITE-TEXAS FLOURESCENTS REINVENTED
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 11,753
 [_DRIVER TYPE](1) OSRAM OT85W_2240mA
 [_BOARD/LAMP TYPE](4) SEOUL "Y" BOARDS_4000K
 [_COLOR TEMP] 4007 CCT
 [_LUMEN/WATT] 133 LPW
 [_CRI] 84.8
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11753
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	88.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.61 m
Luminous Height	0.10 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4637	4103	4290
55	4403	3749	4117
65	3974	3457	4172
75	3473	3333	4258
85	2447	2164	2886

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	3940.06	3940.06	3940.06	3940.06	3940.06	3940.06	3940.06	3940.06	3940.06	3940.06
3	3957.74	3956.62	3952.70	3943.48	3936.10	3925.20	3916.44	3909.24	3903.80	3901.84
6	3967.40	3962.18	3946.10	3922.22	3898.00	3876.52	3859.58	3845.52	3838.46	3836.10
9	3952.22	3938.58	3904.78	3863.00	3828.50	3807.70	3795.60	3792.80	3795.26	3798.70
12	3905.64	3880.80	3828.48	3778.58	3756.54	3741.26	3737.30	3744.40	3757.88	3768.40
15	3828.72	3797.88	3742.14	3692.74	3675.88	3675.90	3677.44	3689.72	3702.48	3713.94
18	3739.88	3715.88	3648.64	3606.90	3593.68	3605.60	3614.06	3632.38	3643.08	3641.86
21	3656.26	3626.46	3564.30	3517.26	3512.48	3525.00	3538.02	3569.78	3579.66	3564.60
24	3571.82	3534.88	3471.14	3416.20	3421.46	3438.14	3437.62	3481.86	3498.20	3479.52
27	3476.70	3435.02	3349.60	3308.24	3317.36	3335.08	3333.28	3365.78	3382.72	3381.74
30	3369.70	3319.12	3197.82	3177.06	3184.86	3204.08	3222.90	3256.48	3258.76	3274.76
33	3250.60	3188.58	3039.34	3052.66	3072.56	3088.92	3107.48	3140.54	3147.98	3162.46
36	3114.40	3037.28	2884.92	2948.30	2970.62	2984.12	2992.86	3017.00	3034.82	3042.42
39	2958.78	2881.84	2755.54	2814.96	2837.38	2857.94	2863.34	2896.12	2901.94	2911.64
42	2796.88	2718.92	2614.20	2663.66	2681.38	2703.56	2724.06	2758.60	2755.12	2772.38
45	2641.02	2551.64	2464.26	2492.72	2515.26	2555.44	2577.96	2610.96	2616.32	2628.48
48	2485.82	2384.72	2325.18	2325.30	2365.58	2404.72	2437.60	2465.98	2480.00	2485.52
51	2323.90	2224.62	2161.58	2165.24	2215.24	2229.50	2290.28	2318.14	2347.32	2347.92
54	2157.00	2054.12	1999.70	1983.90	2041.56	2056.76	2122.66	2173.80	2206.92	2213.78
57	1986.68	1870.26	1804.16	1828.90	1881.22	1912.96	1970.70	2030.28	2073.90	2081.60
60	1804.10	1672.32	1620.48	1665.12	1717.90	1777.38	1823.94	1898.64	1945.40	1958.04
63	1603.76	1471.06	1471.42	1501.56	1547.04	1623.00	1697.80	1777.58	1837.44	1847.44
66	1403.60	1267.98	1286.50	1344.68	1404.90	1489.72	1584.36	1660.02	1731.86	1737.62
69	1221.14	1079.42	1110.98	1163.02	1265.60	1367.24	1467.08	1541.14	1595.46	1614.98
72	1048.62	906.26	946.96	1012.86	1150.38	1234.00	1339.06	1410.92	1441.34	1477.56
75	873.94	738.46	782.06	876.86	1013.34	1104.64	1191.26	1258.64	1290.42	1322.34
78	693.96	568.92	630.20	748.58	862.16	950.54	1036.84	1084.58	1126.24	1132.06
81	536.58	420.24	512.78	622.70	718.76	796.32	870.96	921.10	921.84	929.94
84	363.92	273.84	330.80	434.46	491.34	542.60	618.92	635.74	652.20	670.32
87	194.84	117.68	135.80	173.36	229.04	219.76	244.18	242.72	285.60	273.92
90	82.04	18.80	19.12	21.24	19.86	12.28	19.34	17.66	28.42	23.40
93	6.50	3.26	0.38	1.16	1.10	1.38	2.80	1.34	3.24	2.68
96	1.06	1.08	0.12	0.56	1.30	2.22	1.22	0.54	0.50	0.54
99	0.40	0.12	0.94	1.44	1.02	1.48	2.44	2.02	0.16	0.06
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1161.08	N.A.	9.90
0-30	3000.49	N.A.	25.50
0-40	4702.00	N.A.	40.00
0-60	8702.69	N.A.	74.00
0-80	11134.46	N.A.	94.70
0-90	11747.93	N.A.	100.00
10-90	11446.93	N.A.	97.40
20-40	3540.93	N.A.	30.10
20-50	5325.16	N.A.	45.30
40-70	5382.74	N.A.	45.80
60-80	2431.77	N.A.	20.70
70-80	1049.72	N.A.	8.90
80-90	613.47	N.A.	5.20
90-110	5.19	N.A.	0.00
90-120	5.19	N.A.	0.00
90-130	5.19	N.A.	0.00
90-150	5.19	N.A.	0.00
90-180	5.19	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11753.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	301.01
10-20	860.07
20-30	1839.41
30-40	1701.51
40-50	1784.24
50-60	2216.45
60-70	1382.05
70-80	1049.72
80-90	613.47
90-100	5.01
100-110	0.18
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	107	101	96	92	104	99	95	90	95	91	88	91	88	85	87	85	82	80
2	97	87	80	74	94	86	79	73	82	76	71	78	74	69	75	71	68	65
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	39	33	28	26
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	49	37	29	24	36	28	23	35	28	23	34	28	23	21

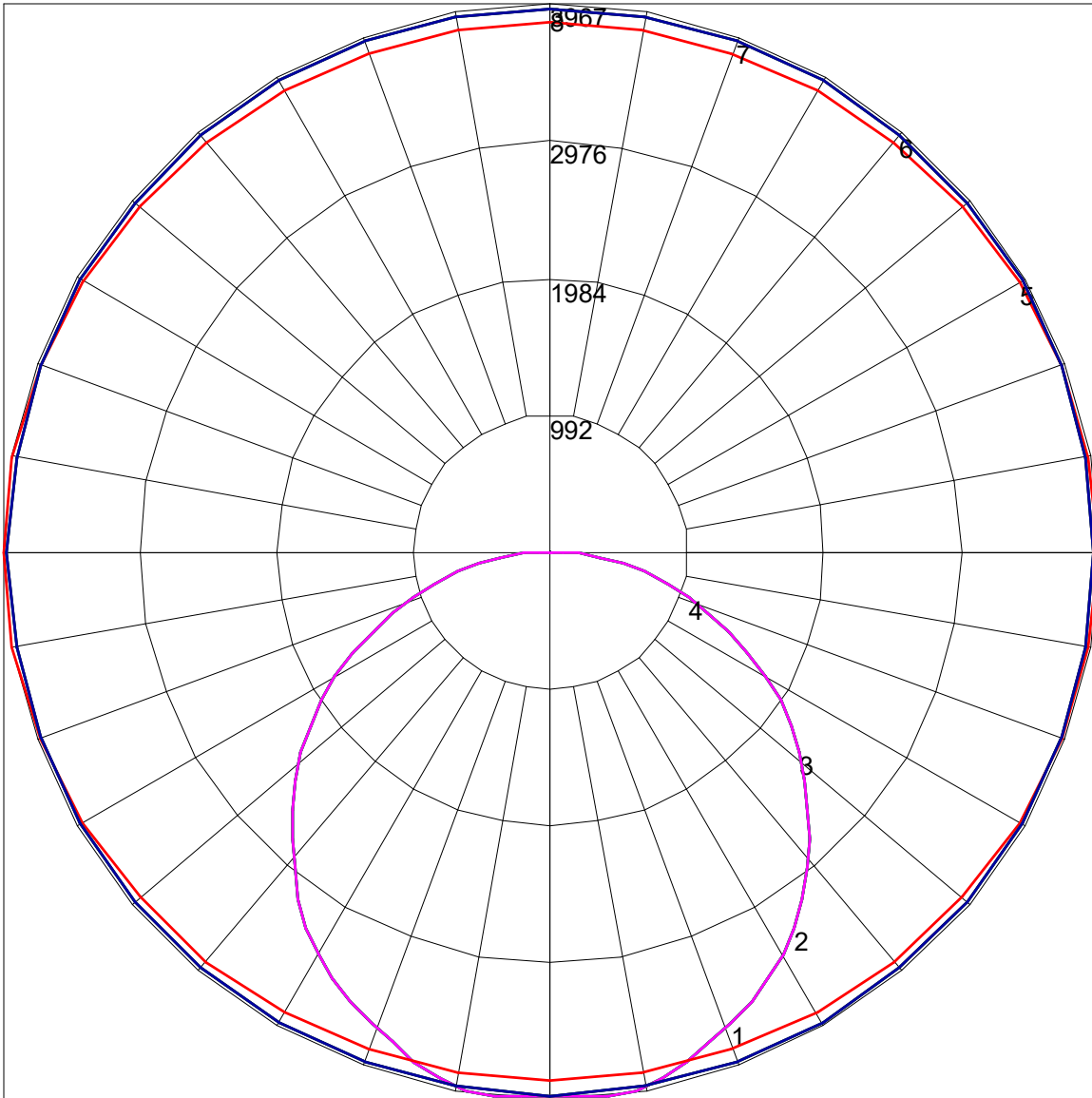
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UGR TABLE - CORRECTED

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	16.1	17.8	16.5	18.1	18.5	17.2	18.9	17.6	19.2	19.6
	3H	17.8	19.3	18.1	19.7	20.0	19.8	21.3	20.1	21.6	22.0
	4H	18.4	19.9	18.8	20.2	20.6	20.9	22.4	21.3	22.7	23.1
	6H	18.9	20.3	19.3	20.6	21.0	21.9	23.3	22.3	23.6	24.0
	8H	19.1	20.4	19.5	20.8	21.2	22.3	23.6	22.7	24.0	24.4
	12H	19.2	20.5	19.6	20.9	21.3	22.6	23.8	23.0	24.2	24.6
4H	2H	16.9	18.4	17.3	18.7	19.1	17.7	19.2	18.1	19.6	19.9
	3H	18.8	20.0	19.2	20.4	20.8	20.5	21.8	20.9	22.2	22.6
	4H	19.5	20.7	20.0	21.1	21.5	21.8	23.0	22.2	23.4	23.8
	6H	20.1	21.1	20.6	21.6	22.0	23.0	24.0	23.4	24.5	24.9
	8H	20.3	21.3	20.8	21.7	22.2	23.5	24.4	23.9	24.9	25.3
	12H	20.5	21.3	20.9	21.8	22.3	23.8	24.7	24.3	25.2	25.6
8H	4H	20.1	21.1	20.6	21.5	22.0	22.1	23.1	22.6	23.5	24.0
	6H	20.9	21.7	21.4	22.2	22.7	23.5	24.3	24.0	24.8	25.2
	8H	21.2	21.9	21.7	22.4	22.9	24.0	24.8	24.5	25.3	25.8
	12H	21.3	22.0	21.8	22.5	23.1	24.5	25.2	25.0	25.6	26.2
12H	4H	20.3	21.2	20.8	21.6	22.1	22.1	23.0	22.6	23.5	23.9
	6H	21.1	21.9	21.6	22.3	22.9	23.5	24.3	24.0	24.7	25.3
	8H	21.4	22.1	22.0	22.6	23.2	24.2	24.8	24.7	25.3	25.9

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 3967.4 Located At Horizontal Angle = 0, Vertical Angle = 6

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 3 - Vertical Plane Through Horizontal Angle (0 - 180)
- # 4 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 5 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)
- # 6 - Horizontal Cone Through Vertical Angle (0)
- # 7 - Horizontal Cone Through Vertical Angle (0)
- # 8 - Horizontal Cone Through Vertical Angle (0)