

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRL24L840-UNV-DIM-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] FO44424.PSO
 [TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
 [ISSUEDATE] 6/01/2023
 [MANUFAC] DAY-BRITE by SIGNIFY
 [LUMCAT] HRL24L840-UNV-DIM-LFA
 [LUMINAIRE] 2X2 HRL, 4-FORTIMO EDGE LV2 8600 21.5IN 840 BOARDS,
 XI190C275V054BSG2 DRIVER 1800mA/CHN 277V, LFA FLAT LENS
 [TESTDATE] 6/01/2023

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	171.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.83 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25612	25912	26315
55	23356	23632	24095
65	20804	21023	21452
75	17825	17980	18267
85	14195	14094	13795

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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>
0.0	9775.112	9775.112	9775.112	9775.112	9775.112
2.5	9763.595	9752.020	9751.615	9768.035	9772.505
5.0	9718.570	9706.540	9708.340	9725.055	9731.045
7.5	9642.025	9631.500	9634.345	9654.665	9662.440
10.0	9534.365	9524.980	9530.710	9555.885	9564.470
12.5	9397.520	9389.905	9398.005	9424.670	9435.305
15.0	9231.225	9225.150	9236.230	9265.615	9277.595
17.5	9033.320	9029.675	9044.315	9076.955	9092.140
20.0	8806.920	8807.845	8826.915	8863.055	8878.235
22.5	8559.025	8562.690	8587.260	8626.875	8641.835
25.0	8289.080	8295.240	8324.435	8367.570	8386.140
27.5	7997.315	8007.775	8041.425	8084.790	8106.465
30.0	7686.295	7698.625	7735.705	7784.915	7807.455
32.5	7361.870	7374.435	7416.570	7468.280	7490.700
35.0	7025.215	7037.195	7083.140	7135.750	7161.000
37.5	6677.725	6689.805	6738.995	6792.960	6821.205
40.0	6323.345	6337.720	6385.275	6442.505	6472.395
42.5	5959.220	5978.245	6026.440	6087.030	6113.890
45.0	5596.595	5614.065	5662.090	5721.180	5750.305
47.5	5235.060	5247.900	5294.965	5346.815	5383.120
50.0	4870.425	4881.880	4924.805	4976.260	5013.720
52.5	4504.985	4516.590	4556.250	4608.550	4641.920
55.0	4139.800	4153.745	4188.720	4240.195	4270.835
57.5	3779.760	3792.065	3822.000	3869.800	3898.395
60.0	3422.345	3432.145	3458.890	3502.460	3528.690
62.5	3067.620	3076.690	3098.620	3140.375	3161.710
65.0	2717.045	2725.370	2745.555	2782.480	2801.620
67.5	2376.940	2381.940	2399.515	2428.630	2447.005
70.0	2045.460	2047.425	2062.680	2086.745	2103.630
72.5	1737.280	1739.310	1751.715	1769.385	1777.300
75.0	1425.685	1426.655	1438.075	1455.240	1461.025
77.5	1130.700	1131.780	1138.595	1149.680	1156.580
80.0	857.677	857.801	861.620	866.674	869.937
82.5	606.948	606.766	608.688	609.592	608.790
85.0	382.334	379.863	379.589	376.429	371.546
87.5	179.528	172.089	168.619	165.582	160.098
90.0	28.506	26.622	24.973	23.364	19.200
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3526.23	N.A.	14.30
0-30	7360.17	N.A.	29.90
0-40	11790.89	N.A.	47.90
0-60	19916.22	N.A.	80.90
0-80	24175.09	N.A.	98.20
0-90	24610.12	N.A.	100.00
10-90	23688.24	N.A.	96.20
20-40	8264.66	N.A.	33.60
20-50	12636.55	N.A.	51.30
40-70	10854.57	N.A.	44.10
60-80	4258.87	N.A.	17.30
70-80	1529.63	N.A.	6.20
80-90	435.04	N.A.	1.80
90-110	3.39	N.A.	0.00
90-120	3.39	N.A.	0.00
90-130	3.39	N.A.	0.00
90-150	3.39	N.A.	0.00
90-180	3.39	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	24613.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	921.88
10-20	2604.35
20-30	3833.94
30-40	4430.72
40-50	4371.89
50-60	3753.43
60-70	2729.24
70-80	1529.63
80-90	435.04
90-100	3.39
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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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UGR TABLE - CORRECTED

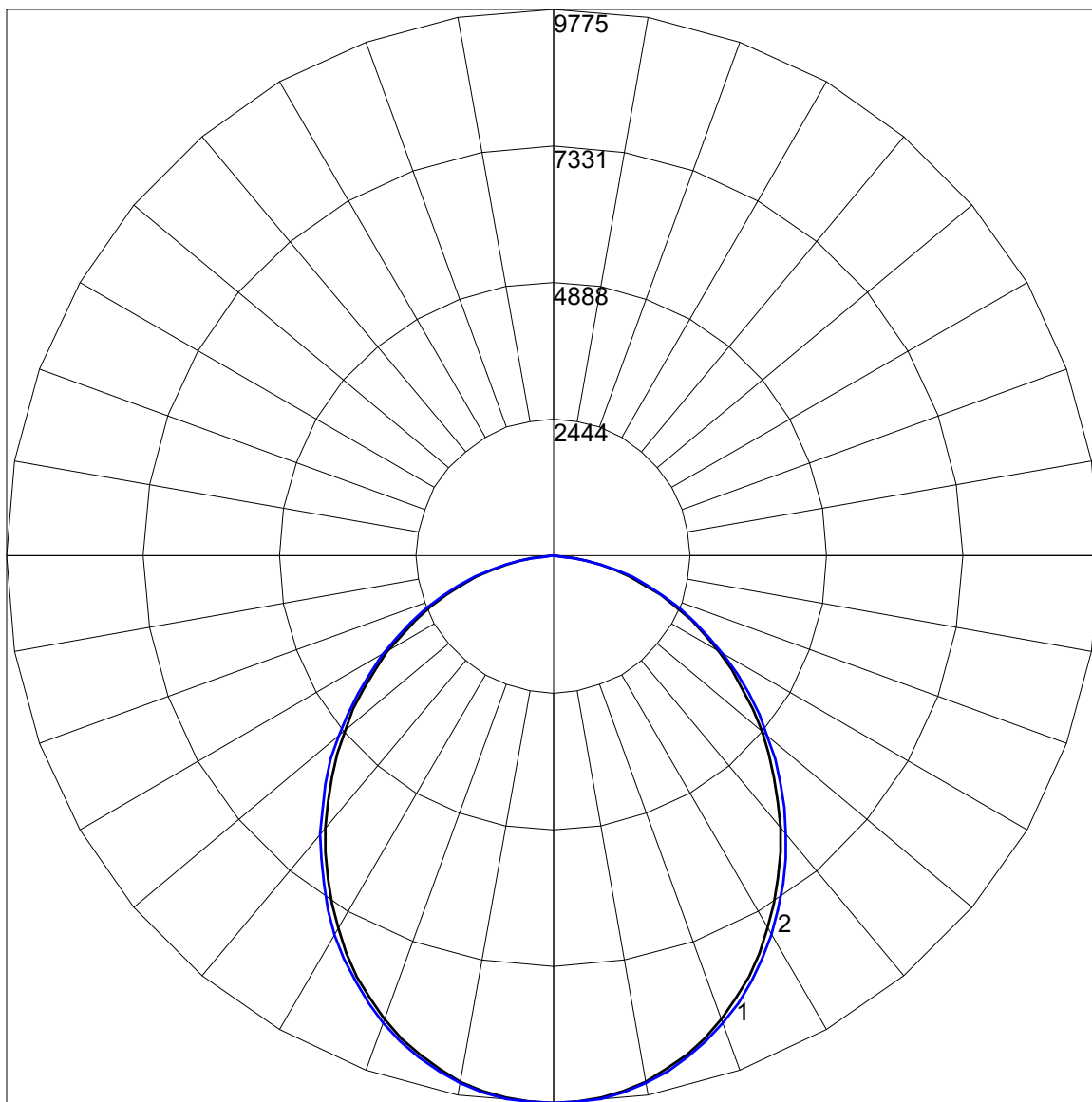
Reflectances

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	22.8	24.4	23.2	24.7	25.0	23.0	24.6	23.3	24.9	25.2
	3H	24.5	25.9	24.8	26.2	26.6	24.6	26.1	25.0	26.4	26.8
	4H	25.1	26.5	25.5	26.8	27.2	25.3	26.6	25.7	27.0	27.3
	6H	25.6	26.8	26.0	27.2	27.6	25.7	27.0	26.1	27.3	27.7
	8H	25.7	26.9	26.1	27.3	27.7	25.8	27.1	26.3	27.4	27.8
	12H	25.8	27.0	26.2	27.3	27.8	26.0	27.1	26.4	27.5	27.9
4H	2H	23.4	24.8	23.8	25.1	25.5	23.5	24.9	23.9	25.2	25.6
	3H	25.3	26.4	25.7	26.8	27.2	25.4	26.6	25.8	27.0	27.4
	4H	26.0	27.1	26.5	27.5	27.9	26.2	27.2	26.6	27.6	28.0
	6H	26.6	27.5	27.1	28.0	28.4	26.7	27.7	27.2	28.1	28.6
	8H	26.8	27.7	27.3	28.1	28.6	27.0	27.8	27.4	28.2	28.7
	12H	27.0	27.7	27.5	28.2	28.7	27.1	27.8	27.6	28.3	28.8
8H	4H	26.3	27.2	26.8	27.6	28.1	26.5	27.3	26.9	27.7	28.2
	6H	27.0	27.7	27.5	28.2	28.7	27.1	27.9	27.6	28.3	28.8
	8H	27.3	27.9	27.8	28.4	28.9	27.4	28.0	27.9	28.6	29.0
	12H	27.5	28.1	28.0	28.6	29.1	27.6	28.2	28.1	28.7	29.2
12H	4H	26.4	27.1	26.9	27.6	28.1	26.5	27.2	27.0	27.7	28.2
	6H	27.1	27.7	27.6	28.2	28.7	27.2	27.8	27.7	28.3	28.8
	8H	27.4	28.0	27.9	28.5	29.0	27.5	28.1	28.0	28.6	29.1

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 9775.112 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)