

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRL12L840-UNV-DIM-LRA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] FO44430.PSO
 [TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
 [ISSUEDATE] 6/02/2023
 [MANUFAC] DAY-BRITE by SIGNIFY
 [LUMCAT] HRL12L840-UNV-DIM-LRA
 [LUMINAIRE] 2X2 HRL, 4-FORTIMO EDGE VO LV2 4800 21.5IN 840 BOARDS,
 XI095C240V050BPT1 DRIVER 1800mA 277V, LRA ROUND LENS
 [TESTDATE] 6/02/2023

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11224
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	84.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	11797	11738	11748
55	11416	11274	11228
65	10904	10689	10522
75	9766	9565	9178
85	8447	8886	8031

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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	3965.622	3965.622	3965.622	3965.622	3965.622
2.5	3962.230	3958.410	3958.345	3963.180	3964.530
5.0	3948.560	3944.260	3943.280	3949.055	3950.770
7.5	3924.630	3919.460	3919.905	3925.310	3927.550
10.0	3889.835	3886.080	3885.930	3892.170	3894.425
12.5	3845.900	3842.620	3842.525	3848.295	3850.585
15.0	3793.230	3789.320	3789.185	3795.380	3797.310
17.5	3731.520	3725.875	3727.145	3733.095	3734.755
20.0	3658.685	3654.225	3655.835	3660.365	3662.165
22.5	3578.670	3575.370	3575.100	3580.495	3582.215
25.0	3491.795	3489.050	3488.530	3492.920	3494.975
27.5	3399.245	3393.800	3394.525	3398.390	3400.580
30.0	3297.690	3292.365	3292.105	3295.930	3299.370
32.5	3189.850	3184.950	3183.405	3187.170	3190.215
35.0	3077.325	3071.565	3069.970	3072.955	3074.610
37.5	2959.230	2952.530	2951.040	2953.710	2956.040
40.0	2835.995	2829.275	2826.280	2828.815	2831.955
42.5	2707.860	2701.430	2698.120	2698.865	2701.935
45.0	2577.905	2571.045	2564.920	2564.990	2567.020
47.5	2445.960	2436.820	2427.595	2427.625	2428.835
50.0	2309.935	2299.355	2286.820	2286.210	2287.320
52.5	2168.520	2157.680	2143.790	2140.715	2140.120
55.0	2023.550	2013.170	1998.350	1990.490	1990.230
57.5	1882.500	1872.120	1858.675	1851.065	1850.265
60.0	1737.780	1727.635	1710.825	1696.710	1696.095
62.5	1583.000	1572.230	1553.930	1537.900	1535.220
65.0	1424.130	1415.590	1396.005	1377.050	1374.215
67.5	1265.515	1256.345	1237.870	1216.295	1211.520
70.0	1105.060	1095.110	1078.435	1056.160	1050.450
72.5	942.390	934.540	919.803	898.590	890.244
75.0	781.074	775.967	765.024	744.797	734.057
77.5	624.886	621.958	612.960	596.119	583.353
80.0	476.829	476.346	472.678	458.690	444.182
82.5	341.565	344.653	346.536	335.091	319.209
85.0	227.498	233.639	239.344	232.802	216.303
87.5	145.099	150.705	157.706	151.417	135.351
90.0	101.972	101.447	99.674	87.972	73.575
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	1444.55	N.A.	12.90
0-30	3052.92	N.A.	27.20
0-40	4974.99	N.A.	44.30
0-60	8749.33	N.A.	78.00
0-80	10937.88	N.A.	97.50
0-90	11210.62	N.A.	99.90
10-90	10835.72	N.A.	96.50
20-40	3530.45	N.A.	31.50
20-50	5511.75	N.A.	49.10
40-70	5156.25	N.A.	45.90
60-80	2188.55	N.A.	19.50
70-80	806.64	N.A.	7.20
80-90	272.74	N.A.	2.40
90-110	12.91	N.A.	0.10
90-120	12.91	N.A.	0.10
90-130	12.91	N.A.	0.10
90-150	12.91	N.A.	0.10
90-180	12.91	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	11223.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	374.90
10-20	1069.65
20-30	1608.37
30-40	1922.08
40-50	1981.31
50-60	1793.03
60-70	1381.91
70-80	806.64
80-90	272.74
90-100	12.91
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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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UGR TABLE - CORRECTED

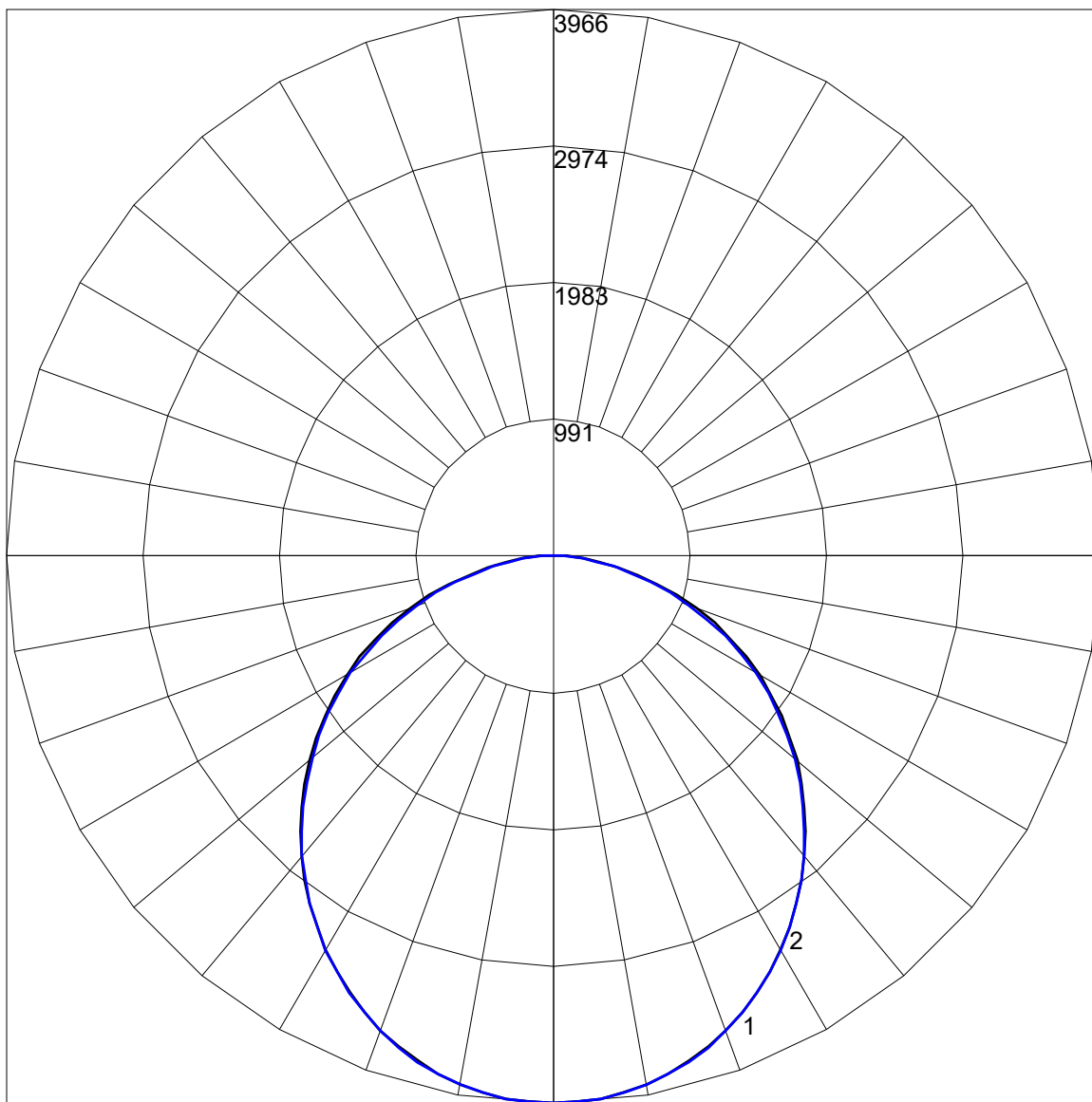
Reflectances

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	20.6	22.3	21.0	22.6	22.9	20.5	22.2	20.9	22.5	22.8
	3H	22.5	24.0	22.9	24.3	24.7	22.3	23.8	22.7	24.1	24.5
	4H	23.2	24.6	23.6	25.0	25.3	23.0	24.4	23.4	24.7	25.1
	6H	23.7	25.0	24.1	25.4	25.8	23.5	24.8	23.9	25.2	25.6
	8H	23.9	25.2	24.3	25.6	26.0	23.7	24.9	24.1	25.3	25.7
	12H	24.0	25.2	24.5	25.6	26.1	23.8	25.0	24.2	25.4	25.8
4H	2H	21.2	22.7	21.6	23.0	23.4	21.2	22.6	21.6	22.9	23.3
	3H	23.3	24.5	23.8	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.2	25.3	24.6	25.7	26.1	24.0	25.1	24.4	25.5	25.9
	6H	24.9	25.8	25.3	26.2	26.7	24.6	25.6	25.1	26.0	26.5
	8H	25.1	26.0	25.5	26.4	26.9	24.8	25.7	25.3	26.2	26.6
	12H	25.3	26.1	25.8	26.6	27.0	25.0	25.8	25.5	26.3	26.8
8H	4H	24.5	25.4	25.0	25.8	26.3	24.3	25.2	24.8	25.7	26.1
	6H	25.3	26.0	25.8	26.5	27.0	25.1	25.8	25.6	26.3	26.8
	8H	25.6	26.3	26.1	26.8	27.3	25.4	26.1	25.9	26.6	27.1
	12H	25.9	26.5	26.4	27.0	27.5	25.7	26.3	26.2	26.8	27.3
12H	4H	24.6	25.3	25.0	25.8	26.3	24.4	25.2	24.9	25.7	26.1
	6H	25.4	26.1	25.9	26.5	27.0	25.2	25.9	25.7	26.3	26.9
	8H	25.8	26.3	26.3	26.8	27.4	25.6	26.1	26.1	26.6	27.2

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 3965.622 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)