

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO44429.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 6/02/2023
[MANUFAC] DAY-BRITE by SIGNIFY
[LUMCAT] HRL12L840-UNV-DIM-LFA
[LUMINAIRE] 2X2 HRL, 4-FORTIMO EDGE VO LV2 4800 21.5IN 840 BOARDS,
XI095C240V050BPT1 DRIVER 1800mA 277V, LFA FLAT LENS
[TESTDATE] 6/02/2023

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	84.7
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	12873	13015	13242
55	11740	11869	12127
65	10549	10657	10926
75	8973	9057	9243
85	7188	7173	7136

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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	4918.597	4918.597	4918.597	4918.597	4918.597
2.5	4913.140	4906.515	4906.470	4915.025	4917.215
5.0	4890.575	4883.280	4884.360	4893.850	4896.775
7.5	4851.575	4845.750	4846.955	4858.060	4860.965
10.0	4797.390	4792.030	4794.925	4808.070	4811.595
12.5	4727.950	4723.860	4727.495	4741.925	4746.965
15.0	4644.620	4640.640	4645.740	4661.895	4667.625
17.5	4544.910	4541.305	4549.420	4568.335	4574.600
20.0	4430.770	4429.310	4439.630	4459.895	4467.415
22.5	4304.335	4306.035	4317.865	4339.100	4347.675
25.0	4167.745	4171.295	4185.830	4208.375	4218.660
27.5	4021.120	4024.880	4043.220	4067.055	4077.820
30.0	3864.290	3868.920	3889.420	3915.865	3927.550
32.5	3700.630	3707.460	3727.310	3755.630	3769.795
35.0	3529.575	3537.820	3559.920	3588.710	3603.715
37.5	3355.545	3363.065	3386.815	3416.020	3431.395
40.0	3176.820	3183.705	3208.705	3240.175	3256.010
42.5	2996.270	3004.350	3026.885	3060.035	3077.095
45.0	2812.935	2821.810	2843.910	2877.255	2893.635
47.5	2631.310	2637.695	2659.540	2692.020	2709.080
50.0	2447.765	2453.265	2473.890	2506.150	2522.590
52.5	2265.425	2269.965	2288.610	2319.410	2337.275
55.0	2080.945	2087.845	2103.725	2133.720	2149.550
57.5	1906.555	1913.080	1928.345	1951.115	1962.625
60.0	1733.725	1738.700	1752.940	1778.725	1793.485
62.5	1553.630	1559.335	1570.335	1595.250	1608.875
65.0	1377.695	1382.840	1391.835	1415.075	1426.970
67.5	1206.840	1210.190	1217.390	1237.245	1246.280
70.0	1039.248	1040.870	1047.071	1063.493	1072.555
72.5	874.794	877.056	882.403	895.764	903.227
75.0	717.658	720.057	724.389	734.870	739.261
77.5	569.564	571.487	575.319	582.615	585.373
80.0	432.201	433.039	435.742	439.515	441.851
82.5	306.536	306.889	308.444	309.925	310.806
85.0	193.593	193.413	193.191	193.198	192.198
87.5	92.097	89.706	87.645	87.786	86.092
90.0	14.680	14.446	13.637	13.605	11.198
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	1774.04	N.A.	14.30
0-30	3702.1	N.A.	29.90
0-40	5929.67	N.A.	47.80
0-60	10017.87	N.A.	80.80
0-80	12177.24	N.A.	98.20
0-90	12399.03	N.A.	100.00
10-90	11935.2	N.A.	96.20
20-40	4155.63	N.A.	33.50
20-50	6353.47	N.A.	51.20
40-70	5474.04	N.A.	44.10
60-80	2159.37	N.A.	17.40
70-80	773.54	N.A.	6.20
80-90	221.79	N.A.	1.80
90-110	1.87	N.A.	0.00
90-120	1.87	N.A.	0.00
90-130	1.87	N.A.	0.00
90-150	1.87	N.A.	0.00
90-180	1.87	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12400.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	463.84
10-20	1310.2
20-30	1928.06
30-40	2227.56
40-50	2197.85
50-60	1890.36
60-70	1385.84
70-80	773.54
80-90	221.79
90-100	1.87
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	96	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	88	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	59	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	31
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	40	33	28	39	33	28	39	32	28	38	32	28	26

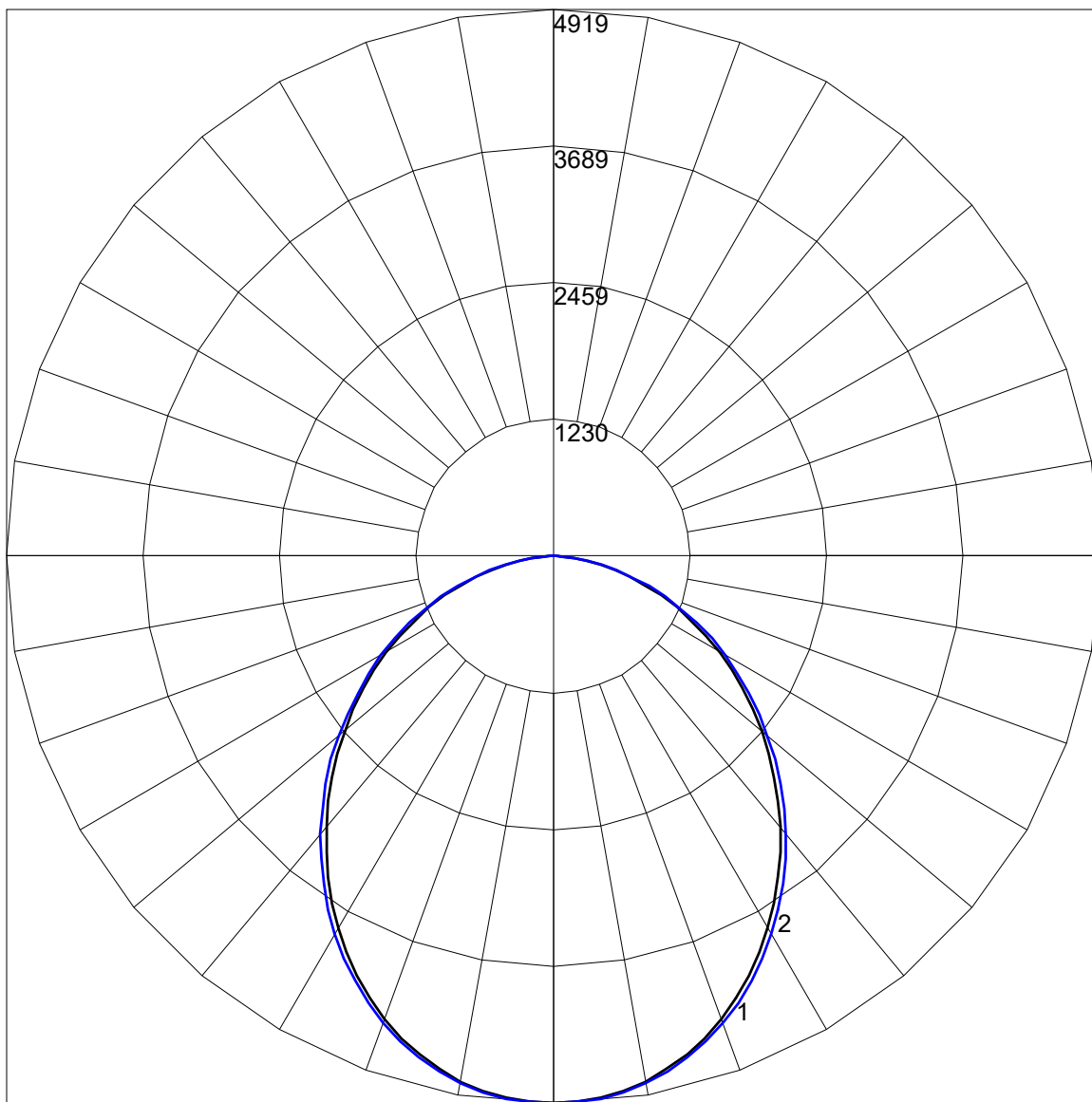
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UGR TABLE - CORRECTED

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	20.5	22.1	20.9	22.4	22.7	20.7	22.3	21.0	22.6	22.9
	3H	22.2	23.6	22.6	24.0	24.3	22.4	23.8	22.7	24.1	24.5
	4H	22.8	24.2	23.2	24.5	24.9	23.0	24.3	23.4	24.7	25.1
	6H	23.3	24.5	23.7	24.9	25.3	23.5	24.7	23.9	25.1	25.5
	8H	23.4	24.6	23.8	25.0	25.4	23.6	24.8	24.0	25.2	25.6
	12H	23.5	24.7	24.0	25.1	25.5	23.7	24.8	24.1	25.2	25.7
4H	2H	21.1	22.5	21.5	22.8	23.2	21.2	22.6	21.6	22.9	23.3
	3H	23.0	24.2	23.4	24.6	25.0	23.1	24.3	23.6	24.7	25.1
	4H	23.8	24.8	24.2	25.2	25.6	23.9	24.9	24.3	25.3	25.8
	6H	24.3	25.2	24.8	25.7	26.1	24.5	25.4	24.9	25.8	26.3
	8H	24.5	25.4	25.0	25.8	26.3	24.7	25.5	25.1	26.0	26.4
	12H	24.7	25.5	25.2	25.9	26.4	24.8	25.6	25.3	26.1	26.5
8H	4H	24.0	24.9	24.5	25.3	25.8	24.2	25.0	24.6	25.5	25.9
	6H	24.8	25.5	25.3	25.9	26.4	24.9	25.6	25.4	26.1	26.6
	8H	25.0	25.7	25.6	26.2	26.7	25.2	25.8	25.7	26.3	26.8
	12H	25.3	25.8	25.8	26.3	26.9	25.4	25.9	25.9	26.4	27.0
12H	4H	24.1	24.8	24.6	25.3	25.8	24.2	25.0	24.7	25.4	25.9
	6H	24.8	25.5	25.3	25.9	26.5	24.9	25.6	25.5	26.0	26.6
	8H	25.1	25.7	25.6	26.2	26.7	25.3	25.8	25.8	26.3	26.9

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 4918.597 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)