

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRL18L840-UNV-DIM-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO44427.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 6/02/2023
[MANUFAC] DAY-BRITE by SIGNIFY
[LUMCAT] HRL18L840-UNV-DIM-LFA
[LUMINAIRE] 2X2 HRL, 4-FORTIMO EDGE LV2 8600 21.5IN 840 BOARDS,
XI150C200V050BPT1 DRIVER 1261mA/CHN 277V, LFA FLAT LENS
[TESTDATE] 6/02/2023

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	119.4
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	18823	19031	19342
55	17183	17367	17725
65	15304	15460	15811
75	13030	13189	13408
85	10493	10467	10347

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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	7173.741	7173.741	7173.741	7173.741	7173.741
2.5	7167.340	7156.995	7155.940	7170.105	7173.340
5.0	7134.330	7123.595	7124.855	7139.195	7142.625
7.5	7078.470	7069.390	7072.110	7086.720	7091.310
10.0	7000.100	6992.420	6996.130	7012.040	7018.330
12.5	6899.945	6891.835	6897.995	6918.470	6925.785
15.0	6777.190	6771.650	6778.735	6800.480	6810.520
17.5	6631.150	6627.700	6638.190	6663.320	6674.460
20.0	6466.050	6464.895	6479.460	6504.975	6520.225
22.5	6284.345	6285.995	6302.930	6331.465	6347.010
25.0	6086.295	6089.925	6110.210	6141.550	6158.190
27.5	5874.010	5878.540	5903.465	5936.890	5954.240
30.0	5645.035	5651.905	5680.590	5714.400	5734.605
32.5	5407.410	5413.505	5444.300	5480.040	5505.040
35.0	5160.455	5166.915	5199.085	5237.660	5262.545
37.5	4906.490	4914.035	4947.400	4988.660	5012.545
40.0	4645.030	4653.915	4689.885	4732.755	4758.255
42.5	4380.450	4389.120	4427.605	4469.155	4494.705
45.0	4113.160	4122.165	4158.650	4199.625	4226.480
47.5	3846.425	3854.310	3887.945	3933.685	3957.615
50.0	3580.420	3584.400	3617.975	3664.150	3687.125
52.5	3313.765	3316.165	3346.525	3391.235	3415.080
55.0	3045.680	3050.165	3078.390	3119.325	3141.845
57.5	2778.810	2784.640	2810.000	2848.985	2870.030
60.0	2515.060	2518.620	2541.575	2580.620	2599.565
62.5	2253.650	2258.830	2279.285	2311.755	2329.595
65.0	1998.660	2005.180	2019.070	2048.770	2064.915
67.5	1752.135	1757.090	1769.765	1793.865	1806.490
70.0	1507.630	1511.075	1523.805	1542.595	1555.220
72.5	1270.445	1274.475	1284.565	1298.230	1309.585
75.0	1042.177	1047.832	1054.903	1063.843	1072.437
77.5	826.981	831.192	836.713	841.476	848.059
80.0	635.989	629.721	633.928	634.944	639.990
82.5	449.260	447.673	449.433	448.522	449.837
85.0	282.623	282.980	281.923	279.471	278.669
87.5	133.166	131.304	127.546	130.722	124.215
90.0	22.531	23.685	19.188	21.049	17.085
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	2588.32	N.A.	14.30
0-30	5403.05	N.A.	29.90
0-40	8656.63	N.A.	47.90
0-60	14628.00	N.A.	80.90
0-80	17761.05	N.A.	98.20
0-90	18084.04	N.A.	100.00
10-90	17407.38	N.A.	96.20
20-40	6068.31	N.A.	33.60
20-50	9280.18	N.A.	51.30
40-70	7981.16	N.A.	44.10
60-80	3133.05	N.A.	17.30
70-80	1123.26	N.A.	6.20
80-90	322.99	N.A.	1.80
90-110	2.87	N.A.	0.00
90-120	2.87	N.A.	0.00
90-130	2.87	N.A.	0.00
90-150	2.87	N.A.	0.00
90-180	2.87	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	18086.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	676.66
10-20	1911.67
20-30	2814.73
30-40	3253.58
40-50	3211.88
50-60	2759.49
60-70	2009.79
70-80	1123.26
80-90	322.99
90-100	2.87
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	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	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	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	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

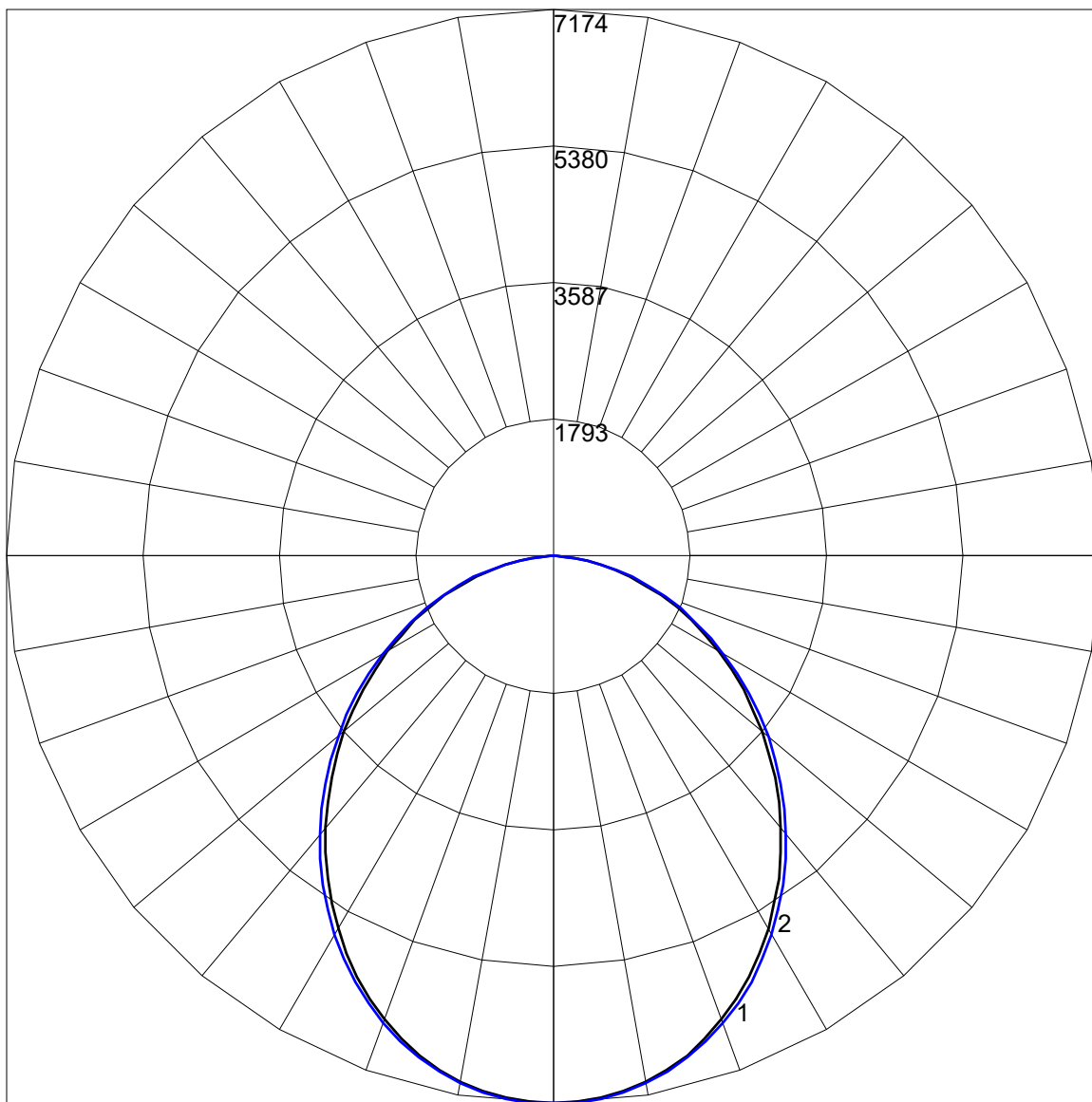
Reflectances

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	21.8	23.4	22.2	23.7	24.0	22.0	23.6	22.3	23.9	24.2
	3H	23.5	24.9	23.8	25.2	25.6	23.6	25.1	24.0	25.4	25.8
	4H	24.1	25.5	24.5	25.8	26.2	24.3	25.6	24.7	26.0	26.4
	6H	24.6	25.8	25.0	26.2	26.6	24.7	26.0	25.1	26.3	26.7
	8H	24.7	25.9	25.1	26.3	26.7	24.9	26.1	25.3	26.5	26.9
	12H	24.8	26.0	25.2	26.3	26.8	25.0	26.1	25.4	26.5	26.9
4H	2H	22.4	23.8	22.8	24.1	24.5	22.5	23.9	22.9	24.2	24.6
	3H	24.3	25.4	24.7	25.8	26.2	24.4	25.6	24.8	26.0	26.4
	4H	25.0	26.1	25.5	26.5	26.9	25.2	26.2	25.6	26.6	27.1
	6H	25.6	26.5	26.1	27.0	27.4	25.8	26.7	26.2	27.1	27.6
	8H	25.8	26.7	26.3	27.1	27.6	25.9	26.8	26.4	27.2	27.7
	12H	26.0	26.7	26.5	27.2	27.7	26.1	26.9	26.6	27.3	27.8
8H	4H	25.3	26.2	25.8	26.6	27.1	25.4	26.3	25.9	26.7	27.2
	6H	26.0	26.7	26.5	27.2	27.7	26.2	26.9	26.6	27.3	27.8
	8H	26.3	26.9	26.8	27.5	27.9	26.4	27.1	26.9	27.6	28.0
	12H	26.5	27.1	27.0	27.6	28.1	26.6	27.2	27.1	27.7	28.2
12H	4H	25.4	26.1	25.9	26.6	27.1	25.5	26.2	26.0	26.7	27.2
	6H	26.1	26.7	26.6	27.2	27.7	26.2	26.9	26.7	27.3	27.8
	8H	26.4	27.0	26.9	27.5	28.0	26.5	27.1	27.0	27.6	28.1

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 7173.741 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)