

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO44428.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 6/02/2023
[MANUFAC] DAY-BRITE by SIGNIFY
[LUMCAT] HRL18L840-UNV-DIM-LRA
[LUMINAIRE] 2X2 HRL, 4-FORTIMO EDGE LV2 8600 21.5IN 840 BOARDS,
XI150C200V050BPT1 DRIVER 1261mA/CHN 277V, LRA ROUND LENS
[TEST DATE] 6/02/2023

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16255
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	119.3
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	17109	17006	17026
55	16571	16344	16276
65	15686	15375	15179
75	14235	13847	13309
85	12453	12982	11805

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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	5741.062	5741.062	5741.062	5741.062	5741.062
2.5	5735.675	5732.145	5729.065	5736.190	5739.420
5.0	5714.770	5710.550	5708.880	5715.760	5719.340
7.5	5680.105	5675.050	5674.705	5682.160	5685.740
10.0	5631.805	5626.330	5625.385	5633.970	5637.525
12.5	5568.720	5564.470	5562.175	5570.830	5575.040
15.0	5491.650	5488.185	5486.005	5494.450	5497.965
17.5	5400.990	5396.705	5396.095	5403.850	5407.030
20.0	5298.235	5293.630	5291.680	5299.815	5303.405
22.5	5183.035	5180.195	5176.150	5184.380	5187.410
25.0	5057.510	5054.655	5050.405	5058.485	5060.265
27.5	4921.735	4918.535	4914.295	4922.560	4924.105
30.0	4775.465	4770.515	4767.420	4774.760	4777.340
32.5	4620.155	4615.845	4609.015	4617.755	4620.430
35.0	4456.720	4451.790	4445.010	4452.565	4453.670
37.5	4285.610	4280.160	4274.930	4279.150	4281.040
40.0	4108.695	4101.660	4095.755	4099.620	4101.980
42.5	3926.245	3918.350	3909.405	3913.225	3915.535
45.0	3738.570	3730.725	3716.105	3719.120	3720.440
47.5	3546.040	3538.210	3519.520	3516.395	3519.810
50.0	3350.220	3338.660	3316.265	3311.735	3313.110
52.5	3147.580	3134.660	3109.200	3100.900	3101.945
55.0	2937.260	2925.020	2896.920	2884.740	2884.900
57.5	2722.125	2709.905	2680.295	2663.330	2662.935
60.0	2501.280	2488.400	2459.950	2437.275	2437.945
62.5	2276.965	2263.685	2234.840	2210.140	2207.600
65.0	2048.655	2036.220	2007.955	1984.440	1982.430
67.5	1826.285	1814.260	1786.960	1761.400	1757.100
70.0	1602.135	1589.015	1563.890	1536.475	1523.595
72.5	1368.770	1356.355	1333.500	1308.265	1290.915
75.0	1138.540	1126.395	1107.516	1084.861	1064.508
77.5	913.404	901.367	890.871	870.731	849.208
80.0	698.160	690.359	686.673	670.734	647.679
82.5	501.854	500.423	504.125	493.096	468.203
85.0	335.414	340.331	349.654	343.161	317.947
87.5	214.631	220.823	230.713	224.512	198.887
90.0	150.687	149.006	145.619	132.147	109.853
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	2091.41	N.A.	12.90
0-30	4420.75	N.A.	27.20
0-40	7205.29	N.A.	44.30
0-60	12672.73	N.A.	78.00
0-80	15836.99	N.A.	97.40
0-90	16236.15	N.A.	99.90
10-90	15693.43	N.A.	96.50
20-40	5113.88	N.A.	31.50
20-50	7986.36	N.A.	49.10
40-70	7459.59	N.A.	45.90
60-80	3164.26	N.A.	19.50
70-80	1172.11	N.A.	7.20
80-90	399.16	N.A.	2.50
90-110	19.08	N.A.	0.10
90-120	19.08	N.A.	0.10
90-130	19.08	N.A.	0.10
90-150	19.08	N.A.	0.10
90-180	19.08	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	16255.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	542.72
10-20	1548.7
20-30	2329.34
30-40	2784.54
40-50	2872.48
50-60	2594.96
60-70	1992.15
70-80	1172.11
80-90	399.16
90-100	19.08
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

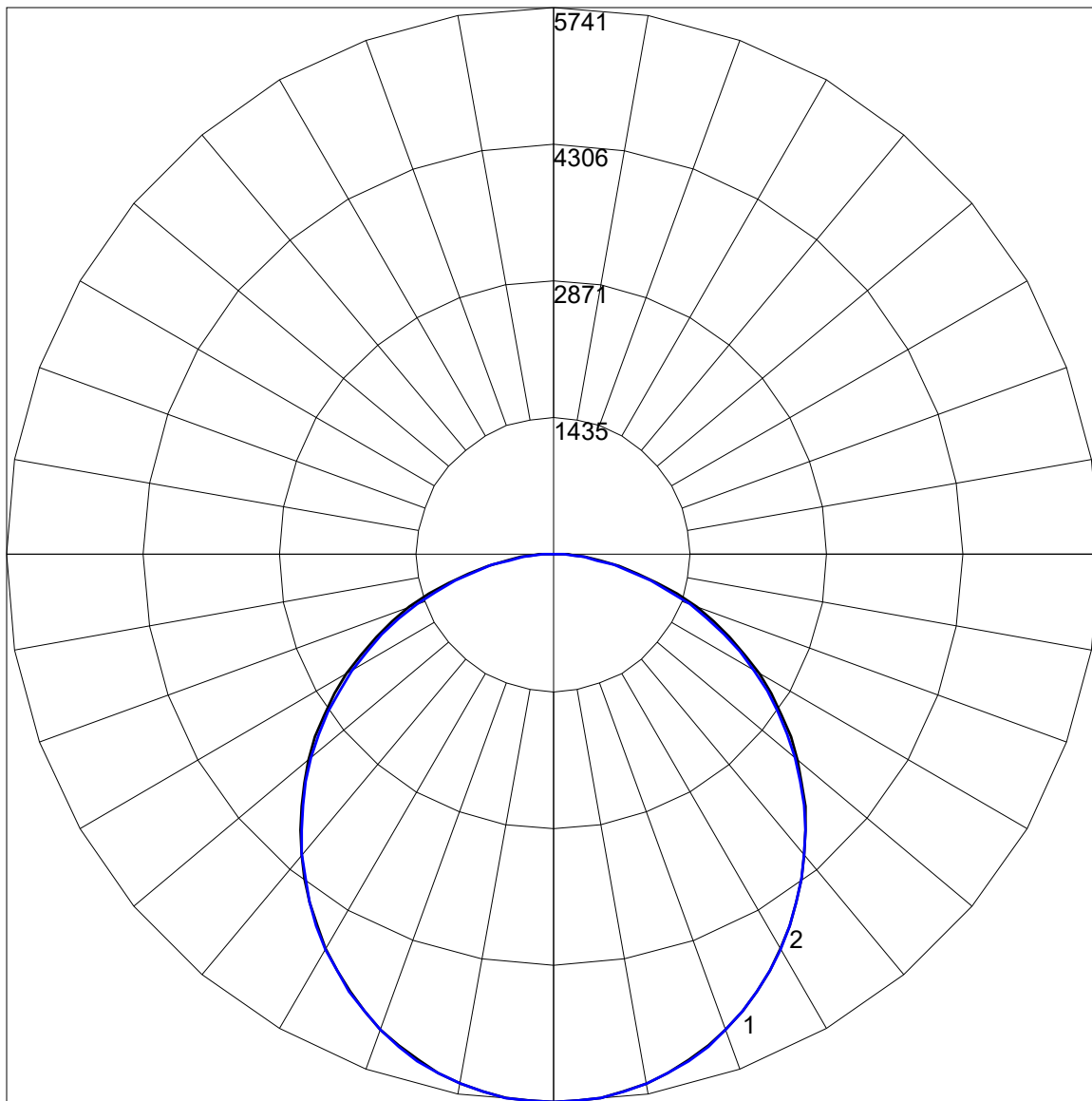
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UGR TABLE - CORRECTED

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	21.9	23.5	22.3	23.9	24.2	21.8	23.4	22.1	23.7	24.0
	3H	23.8	25.3	24.2	25.6	26.0	23.6	25.1	24.0	25.4	25.8
	4H	24.5	25.9	24.9	26.3	26.6	24.3	25.7	24.7	26.0	26.4
	6H	25.0	26.4	25.5	26.7	27.1	24.8	26.1	25.2	26.5	26.8
	8H	25.2	26.5	25.7	26.9	27.3	25.0	26.2	25.4	26.6	27.0
	12H	25.4	26.6	25.8	26.9	27.4	25.1	26.3	25.5	26.7	27.1
4H	2H	22.5	23.9	22.9	24.3	24.7	22.4	23.8	22.8	24.2	24.6
	3H	24.6	25.8	25.0	26.2	26.6	24.5	25.7	24.9	26.1	26.5
	4H	25.5	26.6	25.9	27.0	27.4	25.3	26.4	25.7	26.8	27.2
	6H	26.2	27.1	26.6	27.5	28.0	25.9	26.9	26.4	27.3	27.8
	8H	26.4	27.3	26.8	27.7	28.2	26.1	27.0	26.6	27.5	27.9
	12H	26.6	27.4	27.1	27.9	28.3	26.4	27.1	26.8	27.6	28.1
8H	4H	25.8	26.7	26.3	27.1	27.6	25.6	26.5	26.1	27.0	27.4
	6H	26.6	27.3	27.1	27.8	28.3	26.4	27.1	26.9	27.6	28.1
	8H	26.9	27.6	27.4	28.1	28.6	26.7	27.4	27.2	27.9	28.4
	12H	27.2	27.8	27.7	28.3	28.9	27.0	27.6	27.5	28.1	28.6
12H	4H	25.9	26.6	26.3	27.1	27.6	25.7	26.5	26.2	26.9	27.4
	6H	26.7	27.4	27.2	27.8	28.4	26.5	27.2	27.0	27.6	28.2
	8H	27.1	27.7	27.6	28.1	28.7	26.9	27.5	27.4	27.9	28.5

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 5741.062 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)