



Photometric Report by:

SPECTRUM LIGHTING, INC.

994 JEFFERSON ST. ● FALL RIVER, MA 02721

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HMI1707LED_42W_5K_EXSMBZ_REPORT_20104652.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 20104652
[TESTLAB] Osram
[ISSUE DATE] 1/14/2011
[MANUFAC] Spectrum Lighting
[LUMCAT] HMI1707LED-42-5K-EX/SM
[LUMINAIRE] 17" (2) LED GARAGE LIGHT
[LAMPCAT] DL1100
[LAMP] 18W DL1100 OSRAM

CHARACTERISTICS

Lumens Per Lamp	1483 (2 lamps)
Total Lamp Lumens	2966
Luminaire Lumens	2759
Total Luminaire Efficiency	93 %
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	45.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.74
Spacing Criteria (90-270)	1.20
Spacing Criteria (Diagonal)	1.54
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>25.0</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	573	573	573	573	573
2.5	583	584	583	579	576
5.0	589	588	588	581	576
7.5	606	600	584	582	571
10.0	624	613	590	576	568
12.5	649	626	596	570	564
15.0	685	648	597	562	554
17.5	739	677	602	548	544
20.0	810	721	603	538	525
22.5	856	766	614	524	507
25.0	871	777	630	515	486
27.5	884	776	641	506	468
30.0	875	765	635	503	454
32.5	852	744	626	502	446
35.0	805	711	608	501	441
37.5	747	661	588	500	436
40.0	682	612	552	492	436
42.5	629	560	521	483	435
45.0	574	520	484	465	431
47.5	545	500	447	445	424
50.0	519	485	427	419	413
52.5	523	477	414	396	399
55.0	521	474	413	378	384
57.5	498	464	412	369	362
60.0	484	437	411	365	341
62.5	447	413	395	364	325
65.0	402	378	369	358	329
67.5	352	338	338	342	352
70.0	351	309	302	325	371
72.5	283	285	270	315	375
75.0	279	254	248	308	363
77.5	231	241	241	289	334
80.0	213	214	240	265	298
82.5	203	210	223	243	252
85.0	192	184	202	223	208
87.5	188	181	180	187	179
90.0	153	156	159	146	160
92.5	144	136	138	125	137
95.0	104	108	121	111	116
97.5	91	88	97	99	96
100.0	71	72	78	83	82
102.5	56	56	62	66	66
105.0	38	39	45	47	50
107.5	29	28	30	32	35
110.0	23	22	22	21	23
112.5	18	16	16	16	16
115.0	14	13	12	13	13
117.5	10	10	10	10	10
120.0	8	7	8	8	8
122.5	6	5	5	6	6
125.0	4	3	3	4	4
127.5	2	2	2	2	2
130.0	1	1	1	1	1
132.5	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

135.0	1	1	1	1	1
137.5	2	1	1	1	1
140.0	2	1	1	1	1
142.5	2	1	1	1	1
145.0	2	2	1	1	1
147.5	2	2	1	1	1
150.0	2	2	2	2	1
152.5	2	2	2	2	2
155.0	2	2	2	2	2
157.5	2	2	2	2	2
160.0	3	3	2	2	2
162.5	3	3	3	3	3
165.0	4	4	3	3	3
167.5	4	4	4	4	4
170.0	5	5	5	5	5
172.5	5	5	5	5	5
175.0	6	6	6	6	6
177.5	6	6	6	6	6
180.0	6	6	6	6	6

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Zone	Lumens	%Lamp	%Fixt
0-30	530.30	17.90	19.20
0-40	911.55	30.70	33.00
0-60	1681.36	56.70	60.90
0-90	2564.24	86.50	92.90
90-120	187.48	6.30	6.80
90-130	190.99	6.40	6.90
90-150	192.65	6.50	7.00
90-180	195.06	6.60	7.10
0-180	2759.3	93.00	100.00

Total Luminaire Efficiency = 93.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.09
10-20	173.62
20-30	300.58
30-40	381.24
40-50	384.76
50-60	385.05
60-70	363.53
70-80	298.67
80-90	220.68
90-100	124.84
100-110	49.14
110-120	13.50
120-130	3.51
130-140	0.81
140-150	0.84
150-160	0.94
160-170	0.96
170-180	0.52

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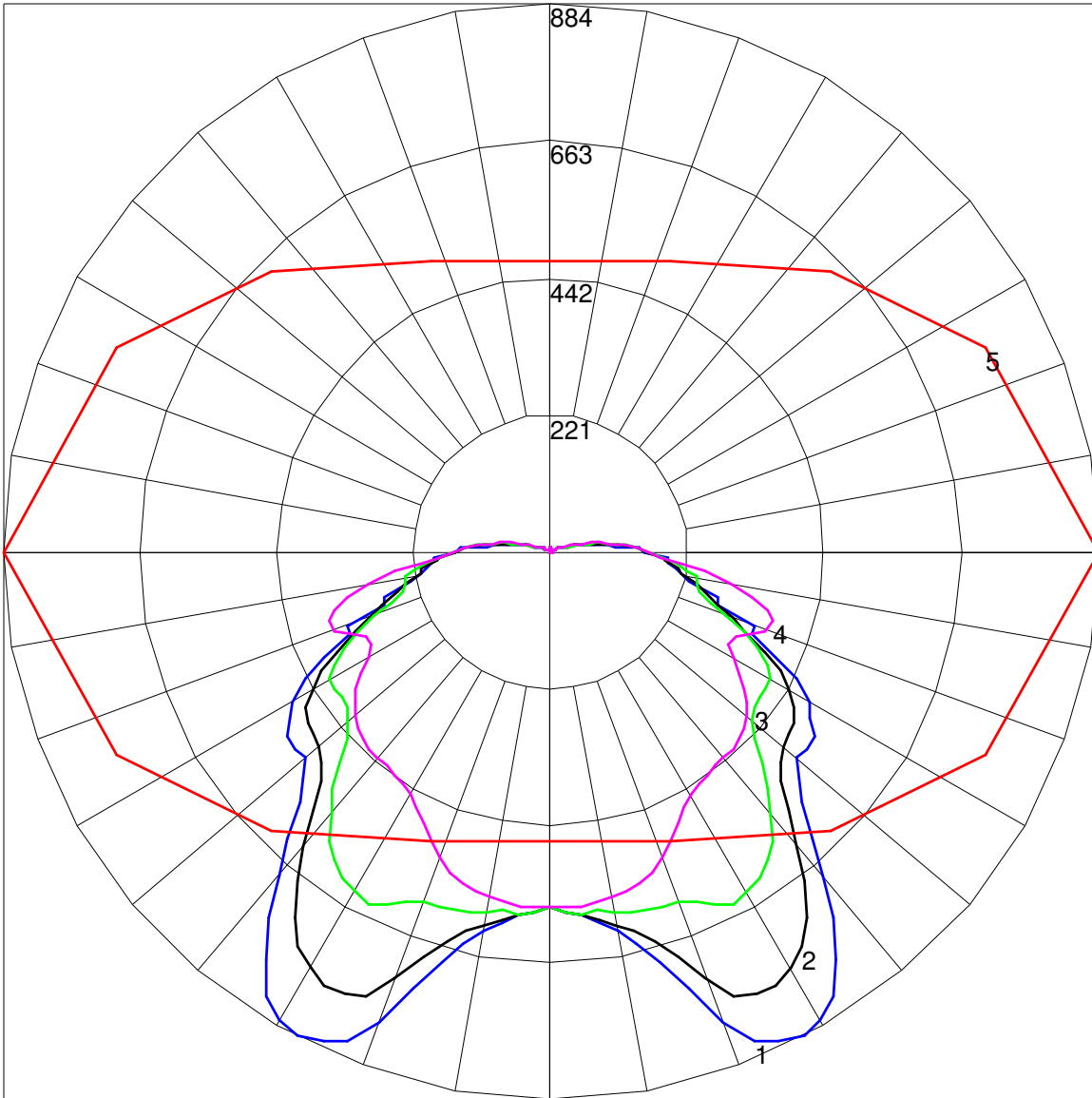
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	106	106	106	106	100	100	100	94	94	94	89	89	89	86
1	97	91	86	81	93	88	83	79	83	79	75	78	75	72	73	71	68	66
2	87	77	70	63	83	75	68	62	70	65	60	66	62	57	62	59	55	52
3	78	67	58	51	75	65	57	51	61	54	49	58	52	47	54	49	45	43
4	71	59	50	43	68	57	49	42	54	46	41	51	44	39	48	43	38	36
5	65	52	43	36	63	51	42	36	48	40	35	45	39	34	43	37	33	30
6	60	47	38	31	58	45	37	31	43	36	30	41	34	29	39	33	28	26
7	55	42	33	27	53	41	33	27	39	32	26	37	30	26	35	29	25	23
8	52	38	30	24	50	37	29	24	35	28	23	34	27	23	32	26	22	20
9	48	35	27	22	46	34	26	21	33	26	21	31	25	20	30	24	20	18
10	45	32	24	19	43	31	24	19	30	23	19	29	23	18	27	22	18	16

POLAR GRAPH



Maximum Candela = 884 Located At Horizontal Angle = 0, Vertical Angle = 27.5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- # 2 - Vertical Plane Through Horizontal Angles (22 - 202)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 4 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 5 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)