

IESNA: LM-63-1995
[TEST] 18598A ESCO LIGHTING
[MANUFAC] COBRA HEAD ROADWAY LUMINAIRE
[LUMCAT] GRW4R17

[LUMINAIRE] WITH DIFFUSE REFLECTOR AND PRISMATIC BOROSILICATE GLASS BOWL LENS

[LAMP] ONE SYLVANIA 250 WATT HPS LAMP

[LAMPCAT] LU250/PLUS/ECO. LUMEN RATING: 28500 Lms.

[OTHER] OPERATING AT 250 WATTS WITH ADJUSTABLE LAMP HOLDER IN POSITION D/4

TILT=NONE

1	28500	1	73	30	1	1	0	0	0											
1	1	1																		
0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40				
42.5	45	47.5	50	52.5	55	57.5	60	62.5	65											
67.5	70	72.5	75	77.5	80	82.5	85	87.5	90	92.5	95	97.5	100	102.5	105					
107.5	110	112.5	115	117.5	120	122.5														
125	127.5	130	132.5	135	137.5	140	142.5	145	147.5	150	152.5	155	157.5							
160	162.5	165	167.5	170	172.5	175														
177.5	180																			
0	5	15	25	35	45	55	60	62.5	65	67.5	70	72.5	75	77.5	80	82.5	85			
87.5	90	95	105	115	125	135	145	155	165											
175	180																			
4463.9	4323.4	4126.3	3999.2	3931.7	3931.7	3994	4160	4385.6	4645	4893.9	5044.4									
5122.2	5127.3	4987.3	4792.8	4564.6	4279.3	4019.9														
3716.5	3581.6	3703.5	3703.5	3493.4	3050	2526.1	2201.9	2043.7	1903.6	1836.2	1563.9									
1322.7	1177.4	1011.5	822.1	645.8	523.9	422.7														
339.7	282.7	233.4	189.3	158.2	132.3	111.5	93.4	75.2	62.2	49.3	36.3	31.1	18.2	5.2	0					
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4463.9	4270.2	4091.2	3974.5	3927.9	3936.9	4038.1	4254.6	4538.6	4833	5085.9	5257									
5342.6	5351.7	5193.5	4956.2	4696.8	4377.8	4083.5														
3781.3	3602.4	3570	3509	3330.1	2946.2	2489.8	2138.3	1971.1	1869.9	1689.7	1439.4									
1237.1	1075	894.8	719.7	583.5	479.8	391.6	321.6													
264.5	216.6	179	147.8	125.8	106.3	86.9	73.9	58.4	42.8	33.7	20.7	14.3	2.6	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4463.9	4276.7	4105.5	4000.5	3960.3	3990.1	4134	4376.5	4681.3	5000.3	5307.6	5555.3									
5697.9	5755	5694	5535.8	5345.2	5089.7	4855														
4558.1	4319.5	4329.8	4393.4	4367.5	4102.9	3680.2	3280.8	2920.3	2636.3	2367.9	2050.2									
1654.7	1259.1	936.3	748.2	613.4	510.9	416.3														
341	282.7	233.4	191.9	154.3	128.4	110.2	86.9	73.9	55.8	42.8	29.8	20.7	11.7	2.6	0	0				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4463.9	4288.4	4143.1	4053.6	4035.5	4056.2	4149.6	4351.9	4664.4	5000.3	5395.8	5852.2									
6219.2	6487.6	6651	6627.7	6476	6188.1	5735.5														
5373.7	5114.4	4839.5	4599.6	4392.1	4174.2	3877.3	3592	3332.6	3052.5	2721.9	2322.5									
1904.9	1569.1	1261.7	973.9	704.1	534.3	426.6														
346.2	290.5	246.4	204.9	167.3	141.3	115.4	97.3	73.9	58.4	46.7	29.8	20.7	7.8	2.6	0	0				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4463.9	4314.3	4198.9	4130.1	4089.9	4091.2	4184.6	4367.5	4652.7	5057.3	5539.7	6004									
6359.3	6785.9	7217.7	7429.1	7410.9	7461.5															
7282.5	6757.4	6141.4	5476.2	5039.2	4734.4	4446.6	4200.2	3750.2	3379.3	3051.3	2683									
2362.7	1971.1	1626.1	1226.7	932.4	698.9	539.4														
433.1	350.1	293.1	245.1	207.5	173.8	147.8	124.5	102.4	84.3	64.8	49.3	33.7	20.7	11.7	2.6	0	0	0	0	
2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4463.9	4336.3	4255.9	4206.7	4149.6	4162.6	4202.8	4364.9	4707.2	5109.2	5544.9	6098.6									
6792.4	7527.6	8063.2	8624.7	9265.3	9353.5															
9003.3	8549.5	8170.8	7934.8	7626.2	7532.8	6754.8	6115.5	5957.3	5463.2	5061.2	4351.9									
3453.2	2673.9	2011.3	1452.4	1043.9	765.1															
593.9	468.1	372.2	304.7	249	207.5	176.4	150.4	128.4	110.2	90.8	73.9	55.8	40.2	24.6	11.7	2.6	0	0	0	
11.7	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
0																				
4463.9	4370	4332.4	4285.8	4237.8	4206.7	4266.3	4446.6	4665.7	4864.1	5188.3	5876.9									

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6885.7 8008.7 9120 9781.4 10110.8 10005.7
9882.5 9970.7 10431.1 10659.3 10486.8 10420.7 10471.3 9999.2 10078.3 9389.8 7960.7
6282.8 4816.1 3541.4 2527.4 1709.1 1239.7
910.3 675.6 521.3 413.7 334.6 271 223 189.3 159.5 137.5 112.8 93.4 77.8 58.4 42.8
24.6 11.7 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
4463.9 4392.1 4364.9 4329.8 4285.8 4248.2 4310.4 4510.1 4617.7 4705.9 5006.8 5757.6
6824.8 7976.3 8977.4 9614.1 9841 9729.5
9812.5 10376.6 10798 11022.4 11202.6 11687.6 11424.4 11819.9 12023.5 10904.4 9059.1
7308.5 5611 4259.8 2924.2 1962 1351.2 914.2
657.5 514.8 413.7 337.2 277.5 229.5 195.8 166 141.3 116.7 93.4 77.8 58.4 42.8 27.2
14.3 5.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
4463.9 4396 4380.4 4348 4303.9 4272.8 4329.8 4527 4585.3 4637.2 4905.6 5691.4
6750.9 7822 8674 9359.9 9511.7 9487 9698.4 10398.6
10746.2 10743.6 11420.5 11585.2 11630.6 12487.7 12417.7 11237.6 9350.9 7536.7
5959.9 4554.2 3158.9 2100.7 1379.7 898.6 641.9
501.8 409.8 343.6 284 239.9 201 166 141.3 116.7 97.3 77.8 58.4 42.8 27.2 16.9 5.2
2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4398.6 4386.9 4364.9 4329.8 4300 4358.4 4532.1 4550.3 4589.2 4830.4 5577.3
6596.6 7587.3 8353.7 8982.6 9073.4 9164.1
9581.7 10306.6 10446.6 10521.8 11332.3 11253.2 11657.8 12649.8 12511 11050.9 9341.8
7543.2 6184.2 4788.9 3317.1 2208.4 1404.4
877.9 622.4 492.8 407.2 347.5 289.2 245.1 203.6 173.8 143.9 116.7 96 77.8 58.4 45.4
27.2 16.9 5.2 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
4463.9 4402.5 4407.7 4386.9 4338.9 4320.8 4380.4 4519.2 4510.1 4532.1 4773.3 5469.7
6290.5 7220.3 8028.2 8505.4 8556 8705.1
9297.7 9920.1 9930.5 10335.1 10940.7 10883.6 11462 12288 12137.6 10385.7 9002
7387.6 6254.2 4890 3385.8 2271.9 1413.5 859.7 612.1
488.9 413.7 356.6 299.5 258.1 211.4 176.4 143.9 119.3 99.8 77.8 58.4 45.4 29.8 16.9
5.2 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4419.3 4421.9 4398.6 4364.9 4348 4402.5 4529.5 4453 4462.1 4722.8 5375 6026
6861.1 7653.4 8033.4 8020.4 8281 8945 9302.9
9306.8 10022.6 10387 10502.4 11082 11679.8 11307.7 9480.5 8312.2 6996 6090.8 4779.8
3352.1 2271.9 1386.2 835.1 596.5 486.3 418.9
365.7 315.1 267.1 224.3 182.8 150.4 121.9 99.8 77.8 58.4 45.4 29.8 16.9 7.8 2.6 0 0
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4463.9 4421.9 4444 4420.6 4389.5 4373.9 4437.5 4520.5 4408.9 4392.1 4661.8 5260.9
5775.7 6511 7232 7540.6 7539.3 7907.6 8556
8667.5 8694.7 9467.6 9642.6 9983.7 10512.8 10969.2 10189.9 8419.8 7378.5 6403.4
5669.4 4386.9 3183.5 2179.8 1331.8 800.1 584.8
483.7 422.7 378.7 328.1 280.1 233.4 185.4 150.4 121.9 99.8 77.8 58.4 42.8 29.8 16.9
7.8 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4425.8 4453 4441.4 4402.5 4373.9 4447.9 4512.7 4361 4307.8 4545.1 5094.9
5568.2 6175.1 6814.4 7014.1 7090.6 7561.3 8074.9
8008.7 8125.4 8698.6 8786.8 9188.8 9598.5 10095.2 8839.9 7255.3 6346.3 5614.9
5013.2 3839.7 2851.6 2003.5 1213.8 752.1 565.4
473.3 422.7 382.5 338.5 290.5 239.9 191.9 154.3 124.5 99.8 77.8 60.9 45.4 29.8 16.9
7.8 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4444 4472.5 4459.5 4420.6 4386.9 4466 4510.1 4336.3 4261.1 4444 4899.1
5364.7 5928.7 6399.5 6513.6 6717.2 7204.7 7508.2
7378.5 7556.2 7885.5 7976.3 8281 8540.4 8986.5 7372 6093.4 5254.4 4769.4 4218.3
3247.1 2480.7 1758.4 1085.4 698.9 536.9 457.8
417.6 378.7 334.6 293.1 239.9 198.4 156.9 124.5 99.8 77.8 58.4 42.8 29.8 20.7 7.8
2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4453 4491.9 4477.7 4440.1 4398.6 4471.2 4497.1 4323.4 4202.8 4351.9 4703.3
5085.9 5656.4 6090.8 6086.9 6308.7 6770.3
6903.9 6686 6894.8 7011.5 7154.2 7225.5 7318.9 7726 5902.8 4782.4 4105.5 3791.7
3278.2 2524.8 2019 1430.3 907.7 631.5 512.2 442.2
403.3 372.2 328.1 289.2 242.5 195.8 156.9 124.5 99.8 77.8 58.4 42.8 29.8 20.7 7.8
2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4446.6 4503.6 4498.4 4450.4 4411.5 4475.1 4481.6 4288.4 4149.6 4250.7 4523.1
4830.4 5364.7 5732.9 5735.5 5924.9 6308.7

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6304.8 6045.4 6204.9 6216.6 6377.4 6210.1 6216.6 6482.5 4646.3 3652.9 3110.9 2898.2
2452.2 1904.9 1558.7 1125.6 762.5 565.4 473.3
417.6 383.8 350.1 315.1 280.1 233.4 191.9 153 124.5 97.3 73.9 55.8 42.8 29.8 20.7
7.8 2.6 0
4463.9 4466 4520.5 4516.6 4468.6 4421.9 4488.1 4463.4 4255.9 4092.5 4130.1 4358.4
4604.8 5063.8 5362.1 5349.1 5516.4 5796.5
5710.9 5408.7 5560.5 5490.4 5637 5283 5260.9 5301.1 3570 2727.1 2306.9 2116.3
1720.8 1362.9 1138.5 849.4 622.4 501.8 433.1 387.7
356.6 326.8 295.7 264.5 220.4 189.3 150.4 121.9 97.3 73.9 55.8 42.8 29.8 20.7 7.8
2.6 0
4463.9 4466 4532.1 4529.5 4481.6 4440.1 4481.6 4441.4 4218.3 4026.4 4012.1 4187.2
4408.9 4804.5 5052.1 4993.8 5133.8 5327 5166.3
4877.1 5017.1 4918.6 5049.5 4611.2 4624.2 4424.5 2867.1 2133.2 1812.9 1628.7 1252.7
989.4 818.2 640.6 518.7 439.6 385.1 346.2
321.6 295.7 269.7 239.9 201 175.1 147.8 115.4 94.7 71.3 55.8 40.2 27.2 18.2 7.8 2.6
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4463.9 4475.1 4534.7 4545.1 4501 4444 4475.1 4428.4 4193.7 3962.9 3886.4 4022.5
4206.7 4560.7 4798 4702 4807.1 4901.7 4703.3
4437.5 4573.6 4437.5 4547.7 4097.7 4130.1 3833.2 2421 1784.3 1521.1 1327.9 995.9
791 648.4 531.7 444.8 385.1 341 306 280.1 259.3
236 211.4 185.4 163.4 138.8 112.8 86.9 68.7 51.9 40.2 27.2 14.3 7.8 0 0 0 0 0 0 0 0
0 0 0 2.6 0 0 0 0 0 0 0 0
4463.9 4488.1 4560.7 4580.1 4523.1 4463.4 4475.1 4405.1 4169.1 3861.7 3671.1 3697
3791.7 4066.6 4310.4 4215.7 4140.5 4108.1 3911
3738.5 3768.4 3730.7 3756.7 3348.2 3287.3 2946.2 1892 1432.9 1220.2 1030.9 778 616
505.7 420.1 361.8 321.6 286.6 260.6 239.9
217.9 198.4 176.4 160.8 138.8 118 99.8 81.7 64.8 46.7 33.7 23.3 10.4 5.2 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4497.1 4598.3 4620.3 4560.7 4484.2 4433.6 4319.5 4079.6 3752.8 3416.9 3262.6
3240.6 3313.2 3522 3558.3 3414.3 3126.5
2950.1 2882.7 2816.5 2746.5 2502.7 2294 1942.5 1604.1 1251.4 1043.9 885.7 740.4
604.3 492.8 404.6 334.6 293.1 261.9 236 215.3
198.4 185.4 172.5 158.2 134.9 115.4 97.3 80.4 64.8 49.3 36.3 23.3 14.3 5.2 2.6 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4463.9 4532.1 4629.4 4661.8 4617.7 4503.6 4393.4 4294.8 4026.4 3708.7 3345.6 3044.8
2895.6 2793.2 2806.2 2891.8 2790.6 2673.9
2554.6 2452.2 2404.2 2341.9 2270.6 1872.5 1523.7 1274.7 1065.9 916.8 796.2 653.6
549.8 455.2 378.7 319 277.5 246.4 223 204.9 188
172.5 154.3 132.3 108.9 93.4 75.2 58.4 44.1 31.1 18.2 7.8 2.6 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
4463.9 4538.6 4639.8 4683.9 4642.4 4532.1 4367.5 4215.7 4029 3695.7 3380.6 3069.4
2784.1 2616.8 2515.7 2419.7 2347.1 2239.5
2129.3 2021.6 1939.9 1885.5 1762.3 1553.5 1265.6 1033.5 890.9 784.5 676.9 578.4
499.2 429.2 369.6 324.2 280.1 249 217.9 194.5
172.5 150.4 124.5 103.7 80.4 62.2 49.3 33.7 18.2 7.8 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
4463.9 4551.6 4648.8 4709.8 4651.4 4560.7 4396 4174.2 3927.9 3690.6 3418.2 3132.9
2921.6 2724.5 2570.2 2414.5 2281 2151.3 2012.6
1838.8 1701.3 1591.1 1410.9 1195.6 945.3 780.6 663.9 580.9 514.8 460.3 407.2 356.6
319 280.1 245.1 214 188 166 141.3 121.9 97.3
71.3 51.9 36.3 23.3 10.4 0
4463.9 4558.1 4652.7 4696.8 4661.8 4551.6 4408.9 4209.3 3899.3 3649.1 3416.9 3238
3107 2965.7 2838.6 2660.9 2506.6 2351 2179.8
1967.2 1749.3 1547 1347.3 1123 929.8 762.5 631.5 547.2 473.3 416.3 363.1 317.7
280.1 239.9 204.9 179 154.3 137.5 115.4 97.3 71.3
51.9 33.7 14.3 2.6 0
4463.9 4560.7 4657.9 4696.8 4665.7 4558.1 4412.8 4222.2 3969.4 3673.7 3407.9 3179.6
3064.2 3018.8 2970.9 2850.3 2680.4 2528.7
2309.5 2068.3 1802.5 1563.9 1327.9 1106.1 914.2 778 663.9 562.8 477.2 398.1 337.2
286.6 245.1 204.9 172.5 141.3 121.9 103.7 88.2
71.3 49.3 33.7 14.3 0
4463.9 4576.2 4661.8 4702 4657.9 4545.1 4377.8 4175.5 3904.5 3614 3361.2 3129.1
2977.3 2876.2 2766 2629.8 2505.3 2353.6 2138.3
1847.9 1571.7 1347.3 1156.7 973.9 809.2 691.2 597.8 518.7 442.2 374.8 317.7 271

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229.5 191.9 160.8 128.4 108.9 93.4 77.8 58.4 40.2
23.3 5.2 0
4463.9 4580.1 4677.4 4692.9 4637.2 4516.6 4323.4 4123.7 3886.4 3617.9 3348.2 3082.4
2873.6 2702.4 2528.7 2335.4 2170.8 2021.6
1834.9 1604.1 1331.8 1097.1 912.9 776.8 657.5 562.8 479.8 417.6 359.2 309.9 271
232.1 202.3 172.5 147.8 121.9 103.7 88.2 67.4
54.5 36.3 20.7 5.2 0
4463.9 4621.6 4702 4702 4634.6 4499.7 4305.2 4102.9 3879.9 3615.3 3335.2 3024
2808.8 2627.2 2435.3 2240.8 2095.5 1924.4 1722.1
1493.9 1244.9 1024.4 853.3 734 619.8 531.7 453.9 396.8 347.5 295.7 259.3 225.6
194.5 168.6 137.5 119.3 101.1 88.2 67.4 54.5 36.3
23.3 5.2 0