

IESNA:LM-63-2002

[TEST]

[TESTLAB]Banner Engineering

[ISSUE DATE]06/16/2020

[MANUFAC]Banner Engineering

[LUMCAT]WLS15HxDW0360Lx

[LUMINAIRE]LED Work Light

[LAMP]21 White LEDs

TILT=NONE

1 -1 1 361 5 1 1 0.087 0.94 0.021

1 1 6.84

0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9 9.5 10 10.5 11 11.5

12 12.5 13 13.5 14 14.5 15 15.5 16 16.5 17 17.5 18 18.5 19 19.5 20 20.5 21

21.5 22 22.5 23 23.5 24 24.5 25 25.5 26 26.5 27 27.5 28 28.5 29 29.5 30 30.5

31 31.5 32 32.5 33 33.5 34

34.5 35 35.5 36 36.5 37 37.5 38 38.5 39 39.5 40 40.5 41 41.5 42 42.5 43 43.5

44 44.5 45 45.5 46 46.5 47 47.5 48 48.5 49 49.5 50 50.5 51 51.5 52 52.5 53

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63 63.5 64 64.5 65 65.5 66

66.5 67 67.5 68 68.5 69 69.5 70 70.5 71 71.5 72 72.5 73 73.5 74 74.5 75 75.5

76 76.5 77 77.5 78 78.5 79 79.5 80 80.5 81 81.5 82 82.5 83 83.5 84 84.5 85

85.5 86 86.5 87 87.5 88 88.5 89 89.5 90 90.5 91 91.5 92 92.5 93 93.5 94 94.5

95 95.5 96 96.5 97 97.5

98 98.5 99 99.5 100 100.5 101 101.5 102 102.5 103 103.5 104 104.5 105 105.5

106 106.5 107 107.5 108 108.5 109 109.5 110 110.5 111 111.5 112 112.5 113

113.5 114 114.5 115 115.5 116 116.5 117 117.5 118 118.5 119 119.5 120 120.5

121 121.5 122 122.5 123 123.5

124 124.5 125 125.5 126 126.5 127 127.5 128 128.5 129 129.5 130 130.5 131

131.5 132 132.5 133 133.5 134 134.5 135 135.5 136 136.5 137 137.5 138 138.5

139 139.5 140 140.5 141 141.5 142 142.5 143 143.5 144 144.5 145 145.5 146

146.5 147 147.5 148 148.5 149

149.5 150 150.5 151 151.5 152 152.5 153 153.5 154 154.5 155 155.5 156 156.5

157 157.5 158 158.5 159 159.5 160 160.5 161 161.5 162 162.5 163 163.5 164

164.5 165 165.5 166 166.5 167 167.5 168 168.5 169 169.5 170 170.5 171 171.5

172 172.5 173 173.5 174 174.5

175 175.5 176 176.5 177 177.5 178 178.5 179 179.5 180

0 22.5 45 67.5 90

249.876 254.43 254.331 254.331 254.232 254.034 253.935 253.737 253.539

253.341 253.044 252.747 252.45 252.054 251.757 251.262 250.866 250.371

249.876 249.381 248.886 248.292 247.698 247.104 246.411 245.817 245.124

244.431 243.639 242.946 242.154 241.362

240.471 239.58 238.788 237.897 237.006 236.016 235.026 234.135 233.145

232.155 231.066 230.076 229.086 228.096 227.007 225.918 224.73 223.641

222.453 221.265 219.978 218.691 217.404 216.117 214.731 213.444 212.058

210.672 209.286 207.90 206.613 205.227

203.742 202.356 200.871 199.386 197.901 196.515 195.03 193.545 192.06 190.476

188.892 187.209 185.625 183.942 182.358 180.576 178.992 177.21 175.527

173.745 172.062 170.28 168.597 166.914 165.231 163.449 161.766 159.984

158.301 156.519 154.737 152.955

151.272 149.49 147.708 145.827 144.045 142.164 140.283 138.402 136.521 134.64

132.759 130.878 128.997 127.017 125.136 123.156 121.275 119.295 117.414

115.434 113.454 111.573 109.593 107.613 105.633 103.554 101.574 99.495 97.495

95.436 93.357 91.278 89.179

87.10 85.001 82.903 80.824 78.764 76.626 74.448 72.389 70.349 68.31 66.271

64.231 62.152 60.093 58.054 55.955 53.876 51.797 49.718 47.639 45.54 43.481

41.402 39.362 37.343 35.323 33.323 31.363 29.443 27.522 25.661 23.80 21.998

20.236 18.493 16.81 15.147
 13.543 11.979 10.494 9.068 7.742 6.475 5.306 4.237 3.287 2.435 1.723 1.148
 0.713 0.436 0.297 0.218 0.198 0.198 0.198 0.198 0.198 0.198 0.198 0.198 0.198
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 0.475 0.495 0.495 0.495 0.515 0.515 0.515 0.535 0.535 0.535 0.554 0.554 0.554
 0.574 0.574 0.574 0.574 0.594 0.594 0.594 0.614 0.614 0.614 0.634 0.634 0.634
 0.653 0.653 0.653
 0.673 0.673 0.673 0.673 0.693 0.693 0.693 0.693 0.713 0.713 0.713 0.713 0.713
 0.733 0.733 0.733 0.733 0.752 0.752 0.772 0.772 0.792 0.812 0.812 0.832 0.851
 0.851 0.871 0.871 0.891 0.891 0.911 0.931 0.931 0.95 0.95 0.97 0.97 0.99 0.99
 1.01 1.03 1.03 1.049
 1.049 1.069 1.069 1.069 1.089 1.089 1.089 1.109 1.109 1.109 1.109 1.129 1.129
 1.129 1.129 1.129 1.148 1.148 1.148 1.148 1.148 1.168 1.168 0.911
 249.876 249.48 249.48 249.381 249.282 249.183 249.084 248.886 248.688 248.49
 248.193 247.995 247.599 247.302 247.005 246.609 246.213 245.718 245.223
 244.728 244.233 243.639 243.144 242.55 241.956 241.263 240.669 239.976
 239.184 238.491 237.699 237.006
 236.214 235.323 234.531 233.64 232.749 231.957 230.967 230.076 229.086
 228.096 227.106 226.116 225.126 224.037 223.047 221.958 220.869 219.78
 218.592 217.503 216.315 215.127 213.939 212.751 211.464 210.276 208.989
 207.702 206.415 205.128 203.742 202.455
 201.069 199.683 198.297 196.911 195.525 194.04 192.654 191.169 189.684
 188.199 186.714 185.229 183.645 182.061 180.576 178.992 177.408 175.725
 174.141 172.557 170.973 169.29 167.706 166.023 164.439 162.756 161.073 159.39
 157.707 156.024 154.44 152.757
 150.975 149.292 147.51 145.827 144.045 142.263 140.481 138.699 136.917
 135.036 133.254 131.373 129.591 127.71 125.928 124.047 122.166 120.384
 118.503 116.622 114.741 112.86 110.979 109.098 107.118 105.237 103.257
 101.277 99.297 97.357 95.377 93.377 91.377
 89.417 87.417 85.457 83.477 81.497 79.537 77.576 75.577 73.597 71.636 69.676
 67.736 65.756 63.796 61.835 59.836 57.836 55.856 53.856 51.876 49.896 47.936
 45.976 44.055 42.134 40.253 38.392 36.571 34.749 32.967 31.205 29.482 27.799
 26.136 24.512 22.928
 21.384 19.879 18.434 17.028 15.682 14.395 13.167 12.019 10.949 9.94 9.029
 8.177 7.425 6.752 6.138 5.603 5.128 4.732 4.396 4.099 3.841 3.623 3.445 3.287
 3.148 3.029 2.93 2.851 2.792 2.732 2.673 2.633 2.594 2.574 2.534 2.515 2.495
 2.475 2.455 2.416 2.396
 2.376 2.356 2.336 2.317 2.297 2.277 2.257 2.237 2.218 2.198 2.178 2.158 2.138
 2.119 2.099 2.079 2.039 2.02 2.00 1.96 1.94 1.901 1.881 1.861 1.841 1.841
 1.822 1.802 1.782 1.762 1.742 1.723 1.723 1.703 1.703 1.703 1.703 1.683 1.683
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 1.465 1.445 1.406 1.386 1.366 1.346 1.307 1.287 1.267 1.247 1.228 1.208 1.188
 1.188 1.168 1.148 1.129 1.129 1.109 1.109 1.089 1.069 1.069 1.049 1.03 1.03
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249.876 249.084 249.084 248.985 248.886 248.787 248.688 248.589 248.391
248.193 247.896 247.698 247.401 247.104 246.807 246.51 246.114 245.718
245.322 244.827 244.332 243.837 243.243 242.649 242.154 241.461 240.867
240.174 239.481 238.887 238.095 237.402
236.709 235.917 235.125 234.333 233.541 232.749 231.858 230.967 230.076
229.185 228.294 227.304 226.413 225.324 224.334 223.344 222.255 221.166
220.077 218.988 217.899 216.81 215.622 214.533 213.345 212.157 210.969
209.781 208.692 207.405 206.217 205.029
203.742 202.455 201.069 199.782 198.396 197.01 195.624 194.238 192.852
191.367 189.882 188.397 186.912 185.427 183.942 182.457 180.972 179.487
178.002 176.418 174.834 173.349 171.765 170.181 168.597 167.013 165.33
163.746 162.063 160.479 158.796 157.212
155.529 153.846 152.262 150.579 148.896 147.213 145.53 143.847 142.164
140.481 138.798 137.016 135.333 133.551 131.769 129.987 128.205 126.423
124.542 122.76 120.978 119.097 117.315 115.434 113.652 111.771 109.989
108.108 106.227 104.346 102.465 100.584
98.703 96.802 94.921 93.001 91.10 89.179 87.298 85.397 83.536 81.635 79.735
77.814 75.913 74.032 72.112 70.231 68.35 66.469 64.627 62.786 60.944 59.123
57.301 55.519 53.737 51.975 50.213 48.49 46.748 45.065 43.382 41.719 40.055
38.452 36.848 35.284 33.759
32.254 30.789 29.363 27.958 26.611 25.304 24.037 22.829 21.661 20.533 19.463
18.454 17.483 16.553 15.682 14.87 14.098 13.385 12.712 12.098 11.524 10.969
10.474 10.019 9.603 9.207 8.851 8.514 8.217 7.94 7.682 7.445 7.227 7.049
6.871 6.712 6.554 6.435
6.296 6.197 6.098 5.999 5.92 5.841 5.782 5.702 5.663 5.603 5.544 5.504 5.465
5.425 5.386 5.346 5.306 5.267 5.227 5.188 5.148 5.108 5.069 5.029 4.99 4.95
4.91 4.871 4.831 4.792 4.752 4.712 4.673 4.633 4.594 4.534 4.475 4.415 4.396
4.376 4.336 4.316 4.277
4.237 4.217 4.178 4.118 4.079 4.039 3.98 3.92 3.861 3.821 3.762 3.703 3.643
3.604 3.564 3.505 3.465 3.406 3.326 3.287 3.227 3.168 3.109 3.069 3.029 2.97
2.93 2.891 2.851 2.812 2.772 2.732 2.693 2.653 2.614 2.574 2.534 2.495 2.475
2.435 2.396 2.356 2.317
2.297 2.257 2.218 2.178 2.119 2.079 2.039 1.98 1.94 1.881 1.841 1.782 1.723
1.683 1.643 1.604 1.564 1.544 1.505 1.485 1.465 1.445 1.426 1.406 1.406 1.386
1.386 1.366 1.346 1.327 1.307 1.287 1.267 1.267 1.247 1.228 1.208 1.188 1.168
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249.876 249.084 248.985 248.985 248.886 248.787 248.688 248.49 248.391
248.193 247.995 247.698 247.50 247.203 246.906 246.609 246.312 245.916 245.52
245.025 244.53 244.134 243.54 243.045 242.55 241.956 241.362 240.669 240.075
239.382 238.689 237.996
237.303 236.61 235.818 235.125 234.333 233.541 232.749 231.957 231.066
230.274 229.383 228.393 227.502 226.512 225.621 224.631 223.542 222.552
221.562 220.473 219.384 218.295 217.206 216.117 215.028 213.939 212.85
211.662 210.573 209.385 208.296 207.108
205.821 204.633 203.445 202.158 200.871 199.584 198.198 196.911 195.525
194.139 192.753 191.367 189.981 188.496 187.11 185.625 184.239 182.754
181.269 179.784 178.299 176.814 175.23 173.745 172.161 170.676 169.092
167.508 165.924 164.34 162.756 161.172
159.588 158.004 156.42 154.836 153.153 151.569 149.985 148.302 146.619
145.035 143.352 141.669 139.986 138.303 136.62 134.937 133.155 131.472 129.69
128.007 126.225 124.443 122.76 120.978 119.196 117.414 115.632 113.85 111.969
110.187 108.405 106.623

104.742 102.96 101.178 99.297 97.475 95.654 93.852 92.07 90.268 88.466 86.684
84.902 83.12 81.319 79.477 77.695 75.913 74.131 72.31 70.508 68.765 67.023
65.30 63.578 61.875 60.172 58.489 56.826 55.163 53.539 51.916 50.312 48.708
47.144 45.599 44.075 42.57
41.085 39.60 38.174 36.788 35.402 34.056 32.749 31.462 30.235 29.047 27.878
26.75 25.661 24.611 23.602 22.631 21.701 20.83 19.978 19.186 18.434 17.721
17.028 16.375 15.761 15.187 14.632 14.117 13.642 13.187 12.751 12.335 11.959
11.603 11.266 10.949
10.672 10.395 10.138 9.90 9.682 9.484 9.286 9.108 8.93 8.791 8.633 8.514
8.375 8.257 8.158 8.059 7.96 7.88 7.801 7.722 7.643 7.583 7.524 7.465 7.405
7.346 7.286 7.227 7.187 7.128 7.069 7.009 6.97 6.91 6.871 6.811 6.752 6.712
6.653 6.593 6.534 6.475 6.435
6.376 6.316 6.237 6.178 6.118 6.059 6.019 5.96 5.90 5.841 5.801 5.742 5.683
5.643 5.584 5.504 5.425 5.366 5.306 5.247 5.188 5.128 5.049 4.97 4.891 4.811
4.732 4.653 4.574 4.495 4.415 4.356 4.297 4.217 4.158 4.099 4.019 3.96 3.901
3.841 3.782 3.722 3.663
3.604 3.544 3.465 3.406 3.346 3.267 3.208 3.128 3.069 3.01 2.95 2.871 2.812
2.752 2.693 2.633 2.574 2.515 2.455 2.396 2.336 2.277 2.218 2.138 2.059 1.98
1.901 1.822 1.742 1.683 1.643 1.604 1.564 1.544 1.525 1.505 1.485 1.465 1.445
1.426 1.406 1.386 1.346
1.327 1.307 1.267 1.228 1.208 1.168 1.129 1.089 1.049 1.01 0.97 0.95 0.931
0.891 0.871 0.851 0.832 0.812 0.792 0.772 0.752 0.733 0.713 0.713 0.693 0.693
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249.876 248.985 248.985 248.985 248.886 248.787 248.688 248.49 248.292
248.193 247.995 247.698 247.50 247.203 246.906 246.609 246.312 245.916 245.52
245.124 244.629 244.134 243.738 243.144 242.649 242.055 241.461 240.867
240.174 239.58 238.887 238.293
237.501 236.808 236.115 235.323 234.531 233.838 233.046 232.254 231.363
230.571 229.779 228.888 227.997 227.007 226.116 225.126 224.136 223.245
222.156 221.067 220.077 218.988 217.899 216.81 215.721 214.632 213.543
212.454 211.365 210.177 208.989 207.90
206.712 205.524 204.336 203.148 201.96 200.673 199.386 198.00 196.713 195.327
193.941 192.555 191.169 189.783 188.397 186.912 185.427 183.942 182.556
181.071 179.586 178.101 176.616 175.131 173.547 172.062 170.577 168.993
167.508 165.924 164.439 162.855
161.271 159.687 158.103 156.519 154.935 153.252 151.668 150.084 148.401
146.817 145.134 143.451 141.768 140.085 138.402 136.719 135.036 133.353
131.67 129.987 128.205 126.522 124.74 123.057 121.275 119.493 117.711 115.929
114.147 112.365 110.583 108.801
107.019 105.237 103.455 101.673 99.891 98.089 96.307 94.545 92.803 91.08
89.357 87.615 85.912 84.209 82.467 80.645 78.903 77.20 75.478 73.735 71.914
70.171 68.429 66.726 65.003 63.32 61.637 59.994 58.311 56.707 55.103 53.519
51.955 50.411 48.866 47.362
45.896 44.431 42.986 41.56 40.174 38.788 37.442 36.115 34.789 33.541 32.294
31.086 29.918 28.769 27.661 26.611 25.582 24.611 23.681 22.79 21.938 21.146
20.374 19.622 18.929 18.275 17.622 17.028 16.454 15.899 15.385 14.89 14.414
13.959 13.543 13.147 12.771
12.415 12.078 11.761 11.464 11.207 10.949 10.712 10.474 10.256 10.078 9.88
9.722 9.563 9.405 9.266 9.128 9.009 8.89 8.791 8.692 8.593 8.514 8.415 8.356
8.276 8.197 8.138 8.078 7.999 7.94 7.88 7.821 7.762 7.702 7.643 7.583 7.524
7.465 7.405 7.346 7.286
7.227 7.168 7.108 7.049 6.989 6.93 6.871 6.791 6.732 6.653 6.574 6.514 6.455
6.395 6.336 6.277 6.217 6.158 6.098 6.039 5.999 5.94 5.881 5.821 5.762 5.683
5.603 5.544 5.465 5.366 5.287 5.188 5.089 5.009 4.91 4.831 4.732 4.653 4.574
4.475 4.376 4.277 4.198
4.138 4.079 4.019 3.96 3.92 3.861 3.821 3.762 3.722 3.683 3.623 3.584 3.524

3.485 3.425 3.386 3.326 3.267 3.227 3.168 3.089 3.01 2.95 2.891 2.831 2.772
2.732 2.673 2.614 2.534 2.475 2.416 2.336 2.277 2.218 2.178 2.119 2.079 2.02
1.841 1.386 0.99 0.97 0.97
0.95 0.95 0.931 0.911 0.911 0.891 0.871 0.851 0.851 0.832 0.812 0.792 0.772
0.772 0.752 0.733 0.713 0.713 0.693 0.673 0.673 0.653 0.634 0.614 0.614 0.594
0.594 0.614 0.614 0.634 0.614 0.911