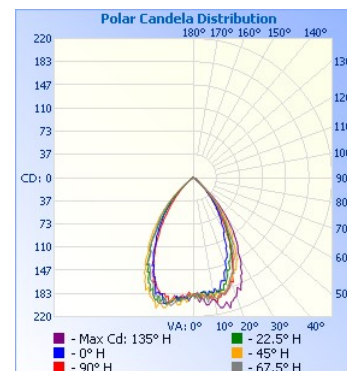


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: CTR180743-01A Medium
Manufacturer: Eaglerise
Luminaire: CP301752 Landscape Underwater
Luminaire Cat: CTR180743-01A Medium
Lamp: Integrated LED AC
Lamp Output: Total luminaire Lumens: 242.8
Max Candela: 214.2 at Horizontal: 135°, Vertical: 16°
Input Wattage: 2.7
Luminous Opening: Circular (Dia: 1.8")
Test: LM-79 Distribution
Test Lab: Kichler Lighting LLC
Photometry: Type C
Nema Type: 5 X 5



Roadway Summary

| | |
|------------------------|-------------|
| Cutoff Classification: | FULL CUTOFF |
| Distribution: | Type VS |
| Max Cd, 90 Deg Vert: | 0 |
| Max Cd, 80 to <90 Deg: | 1.1 |
| Lumens % Lamp | |
| Downward Street Side: | 117.7 48.5% |
| Downward House Side: | 125.2 51.5% |
| Downward Total: | 242.8 100% |
| Upward Street Side: | 0 0% |
| Upward House Side: | 0 0% |
| Upward Total: | 0 0% |
| Total Lumens: | 242.8 100% |

Flood Summary

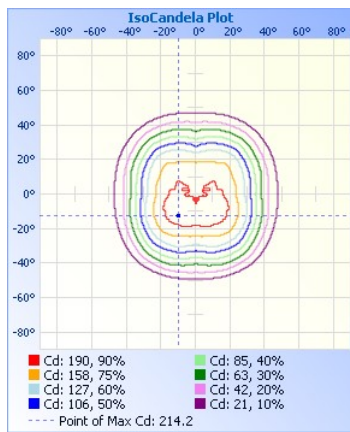
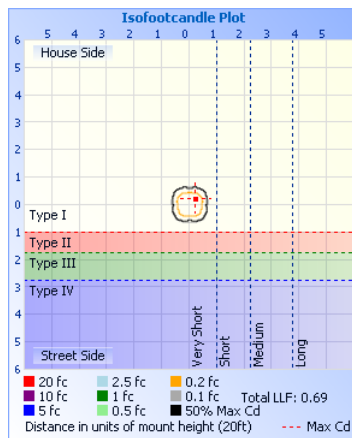
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|--------------|------------|--------|-------------------|-----------------|
| Field (10%): | 94.9% | 230.4 | 93.2 | 95.7 |
| Beam (50%): | 68.8% | 167.0 | 63.8 | 63.3 |
| Total: | 100% | 242.8 | | |

Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 142.8 | 58.8% |
| 0-40 | 202.7 | 83.5% |
| 0-60 | 239.2 | 98.5% |
| 60-90 | 3.6 | 1.5% |
| 70-100 | 1.0 | 0.4% |
| 90-120 | 0 | 0% |
| 0-90 | 242.8 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 242.8 | 100% |

Lumens Per Zone

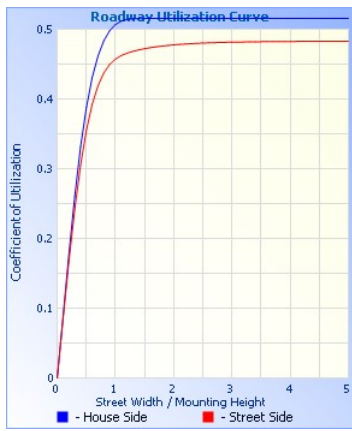
| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10 | 18.3 | 7.5% | 90-100 | 0 | 0% |
| 10-20 | 53.8 | 22.2% | 100-110 | 0 | 0% |
| 20-30 | 70.8 | 29.1% | 110-120 | 0 | 0% |
| 30-40 | 59.9 | 24.7% | 120-130 | 0 | 0% |
| 40-50 | 29.9 | 12.3% | 130-140 | 0 | 0% |
| 50-60 | 6.5 | 2.7% | 140-150 | 0 | 0% |
| 60-70 | 2.6 | 1.1% | 150-160 | 0 | 0% |
| 70-80 | 0.9 | 0.4% | 160-170 | 0 | 0% |
| 80-90 | 0.1 | 0.0% | 170-180 | 0 | 0% |



Illuminance at a Distance

| Center Beam fc | Beam Width |
|------------------|-------------------|
| 17.0ft: 0.64 fc | 21.0 ft 21.2 ft |
| 34.0ft: 0.16 fc | 41.9 ft 42.4 ft |
| 51.0ft: 0.07 fc | 62.9 ft 63.5 ft |
| 68.0ft: 0.04 fc | 83.9 ft 84.7 ft |
| 85.0ft: 0.03 fc | 104.9 ft 105.9 ft |
| 102.0ft: 0.02 fc | 125.8 ft 127.1 ft |

Vert. Spread: 63.3°
 Horiz. Spread: 63.8°



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 10 | 50 | 30 | 20 | 10 | 50 | 30 | 20 | 10 | 0 |
| RCC: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.00 | 1.11 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.02 | 1.00 | 1.00 |
| 1 | 1.13 | 1.10 | 1.07 | 1.05 | 1.10 | 1.08 | 1.05 | .93 | 1.04 | 1.02 | 1.00 | 1.00 | 1.00 | .98 | .97 | .96 | .95 | .94 | .94 | .92 | .92 |
| 2 | 1.07 | 1.01 | .97 | .93 | 1.04 | .99 | .95 | .85 | .96 | .93 | .90 | .93 | .90 | .88 | .88 | .90 | .88 | .86 | .86 | .84 | .84 |
| 3 | 1.00 | .93 | .88 | .83 | .98 | .92 | .87 | .78 | .89 | .85 | .81 | .87 | .83 | .80 | .80 | .84 | .81 | .79 | .77 | .77 | .77 |
| 4 | .95 | .86 | .80 | .76 | .93 | .85 | .79 | .72 | .83 | .78 | .74 | .81 | .77 | .73 | .73 | .79 | .75 | .72 | .71 | .71 | .71 |
| 5 | .89 | .80 | .73 | .69 | .87 | .79 | .73 | .66 | .77 | .72 | .68 | .75 | .71 | .67 | .67 | .74 | .70 | .67 | .65 | .65 | .65 |
| 6 | .84 | .74 | .68 | .63 | .82 | .73 | .67 | .61 | .72 | .66 | .62 | .70 | .66 | .62 | .62 | .69 | .65 | .61 | .61 | .60 | .60 |
| 7 | .79 | .69 | .63 | .58 | .78 | .68 | .62 | .57 | .67 | .61 | .57 | .66 | .61 | .57 | .57 | .65 | .60 | .57 | .55 | .55 | .55 |
| 8 | .75 | .65 | .58 | .53 | .74 | .64 | .58 | .52 | .63 | .57 | .53 | .62 | .57 | .53 | .53 | .61 | .56 | .53 | .51 | .51 | .51 |
| 9 | .71 | .60 | .54 | .50 | .70 | .60 | .54 | .49 | .59 | .53 | .49 | .58 | .53 | .49 | .49 | .57 | .52 | .49 | .47 | .47 | .47 |
| 10 | .67 | .57 | .50 | .46 | .66 | .56 | .50 | .46 | .55 | .50 | .46 | .55 | .49 | .46 | .46 | .54 | .49 | .46 | .44 | .44 | .44 |

Candela Table - Type C

| | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 |
|----|-----|------|-----|------|-----|-------|-----|-------|-----|
| 0 | 185 | 185 | 185 | 185 | 185 | 185 | 185 | 185 | 185 |
| 1 | 184 | 187 | 185 | 191 | 188 | 189 | 184 | 187 | 187 |
| 2 | 190 | 183 | 191 | 182 | 181 | 186 | 191 | 185 | 195 |
| 3 | 186 | 191 | 188 | 187 | 186 | 191 | 197 | 188 | 188 |
| 4 | 182 | 185 | 184 | 187 | 190 | 192 | 191 | 193 | 189 |
| 5 | 182 | 180 | 189 | 195 | 186 | 192 | 194 | 190 | 190 |
| 6 | 182 | 185 | 189 | 187 | 189 | 197 | 202 | 195 | 191 |
| 7 | 189 | 188 | 191 | 198 | 191 | 190 | 202 | 196 | 197 |
| 8 | 181 | 185 | 186 | 188 | 193 | 197 | 199 | 198 | 189 |
| 9 | 185 | 182 | 188 | 194 | 189 | 194 | 195 | 202 | 196 |
| 10 | 185 | 189 | 194 | 191 | 196 | 200 | 196 | 206 | 199 |
| 11 | 179 | 187 | 186 | 195 | 200 | 202 | 203 | 201 | 201 |
| 12 | 185 | 182 | 193 | 195 | 192 | 205 | 210 | 202 | 202 |
| 13 | 185 | 189 | 187 | 188 | 194 | 197 | 211 | 197 | 204 |
| 14 | 177 | 182 | 187 | 189 | 188 | 195 | 207 | 205 | 198 |
| 15 | 169 | 185 | 189 | 190 | 192 | 204 | 203 | 205 | 190 |
| 16 | 169 | 175 | 188 | 186 | 190 | 195 | 214 | 204 | 192 |
| 17 | 170 | 176 | 183 | 187 | 186 | 203 | 206 | 195 | 188 |
| 18 | 158 | 171 | 183 | 178 | 184 | 200 | 204 | 196 | 193 |
| 19 | 154 | 166 | 174 | 181 | 179 | 195 | 201 | 197 | 183 |
| 20 | 153 | 155 | 170 | 170 | 174 | 186 | 200 | 183 | 178 |
| 21 | 142 | 157 | 172 | 168 | 177 | 192 | 194 | 177 | 168 |
| 22 | 139 | 155 | 166 | 163 | 164 | 181 | 187 | 176 | 168 |
| 23 | 137 | 144 | 163 | 165 | 161 | 180 | 193 | 174 | 162 |
| 24 | 132 | 144 | 159 | 155 | 153 | 175 | 185 | 165 | 152 |
| 25 | 122 | 140 | 161 | 150 | 146 | 165 | 181 | 161 | 154 |
| 26 | 121 | 135 | 155 | 145 | 142 | 166 | 172 | 157 | 143 |
| 27 | 110 | 135 | 150 | 143 | 134 | 154 | 171 | 153 | 139 |
| 28 | 103 | 123 | 147 | 137 | 129 | 156 | 159 | 154 | 134 |
| 29 | 99 | 122 | 141 | 129 | 122 | 145 | 157 | 139 | 125 |
| 30 | 99 | 116 | 134 | 124 | 114 | 135 | 150 | 133 | 118 |
| 31 | 94 | 110 | 128 | 123 | 105 | 135 | 138 | 133 | 113 |
| 32 | 83 | 105 | 121 | 113 | 100 | 126 | 133 | 129 | 110 |
| 33 | 82 | 97 | 112 | 107 | 95 | 121 | 130 | 120 | 101 |
| 34 | 78 | 95 | 112 | 98 | 85 | 110 | 123 | 115 | 96 |
| 35 | 70 | 88 | 105 | 93 | 81 | 100 | 116 | 105 | 90 |
| 36 | 69 | 84 | 98 | 87 | 72 | 95 | 110 | 99 | 84 |
| 37 | 60 | 77 | 88 | 80 | 67 | 89 | 105 | 94 | 80 |
| 38 | 60 | 72 | 85 | 71 | 61 | 79 | 95 | 88 | 75 |
| 39 | 54 | 68 | 78 | 70 | 56 | 74 | 89 | 84 | 69 |
| 40 | 49 | 61 | 73 | 64 | 50 | 67 | 83 | 80 | 63 |
| 41 | 47 | 56 | 62 | 56 | 46 | 61 | 77 | 71 | 58 |
| 42 | 44 | 50 | 58 | 51 | 41 | 55 | 69 | 68 | 53 |
| 43 | 36 | 46 | 54 | 45 | 36 | 48 | 62 | 60 | 51 |
| 44 | 32 | 40 | 48 | 39 | 32 | 42 | 57 | 57 | 47 |
| 45 | 30 | 37 | 40 | 35 | 28 | 37 | 49 | 48 | 42 |
| 46 | 26 | 31 | 35 | 29 | 24 | 32 | 43 | 41 | 35 |
| 47 | 23 | 27 | 30 | 25 | 21 | 25 | 35 | 34 | 30 |
| 48 | 18 | 22 | 24 | 22 | 18 | 22 | 30 | 29 | 25 |
| 49 | 16 | 19 | 20 | 19 | 16 | 18 | 25 | 24 | 21 |
| 50 | 15 | 17 | 17 | 16 | 13 | 15 | 19 | 19 | 17 |
| 51 | 12 | 14 | 14 | 14 | 11 | 10 | 12 | 12 | 11 |
| 52 | 12 | 13 | 12 | 12 | 10 | 7 | 6 | 6 | 6 |
| 53 | 12 | 12 | 12 | 11 | 8 | 6 | 5 | 3 | 3 |
| 54 | 11 | 11 | 11 | 10 | 8 | 4 | 3 | 2 | 2 |
| 55 | 11 | 11 | 10 | 10 | 7 | 3 | 2 | 2 | 2 |
| 56 | 10 | 10 | 10 | 9 | 6 | 2 | 1 | 1 | 1 |
| 57 | 10 | 10 | 9 | 9 | 5 | 2 | 1 | 1 | 1 |
| 58 | 9 | 10 | 9 | 8 | 5 | 1 | 1 | 1 | 1 |
| 59 | 9 | 9 | 8 | 7 | 4 | 1 | 0 | 0 | 0 |
| 60 | 8 | 9 | 8 | 7 | 4 | 1 | 0 | 0 | 0 |
| 61 | 8 | 9 | 7 | 6 | 3 | 1 | 0 | 0 | 0 |
| 62 | 8 | 8 | 6 | 5 | 3 | 0 | 0 | 0 | 0 |
| 63 | 7 | 7 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| 64 | 7 | 7 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| 65 | 7 | 7 | 5 | 3 | 2 | 0 | 0 | 0 | 0 |
| 66 | 7 | 6 | 5 | 3 | 2 | 0 | 0 | 0 | 0 |
| 67 | 6 | 6 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| 68 | 6 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 0 |
| 69 | 5 | 5 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| 70 | 5 | 5 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| 71 | 4 | 4 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| 72 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 73 | 3 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 74 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 75 | 3 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 76 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 77 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 78 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 79 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|
| 80 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|
| 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 166 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 178 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 179 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180743-01A Medium
[LUMINAIRE] CP301752 Landscape Underwater
[LAMP] Integrated LED AC
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/22/2019
[MANUFAC] Eaglerise

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 9
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.