

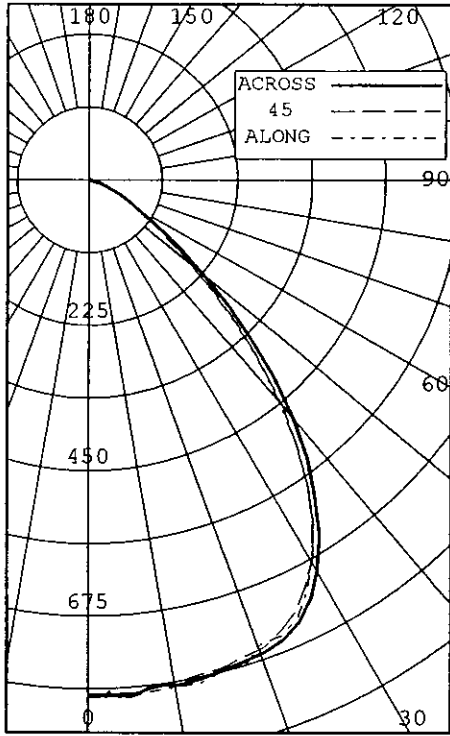


CERTIFIED TEST REPORT No. 24631

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-80-17WF-63K
WITH DIFFUSER AND CLEAR FLAT PLASTIC LENS
24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1432 LMS.
OPERATING AT 24 VDC AND 31 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

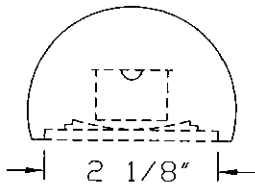
| ANGLE | ALONG 22.5 | 45 | 67.5 | ACROSS | OUTPUT LUMENS |
|-------|------------|-----|------|--------|---------------|
| 0 | 799 | 799 | 799 | 799 | 799 |
| 5 | 802 | 795 | 798 | 796 | 803 |
| 10 | 797 | 789 | 790 | 793 | 795 |
| 15 | 788 | 776 | 783 | 784 | 787 |
| 20 | 764 | 766 | 771 | 775 | 778 |
| 25 | 747 | 741 | 738 | 746 | 755 |
| 30 | 676 | 667 | 676 | 681 | 693 |
| 35 | 578 | 574 | 578 | 592 | 594 |
| 40 | 448 | 448 | 454 | 466 | 478 |
| 45 | 315 | 308 | 321 | 333 | 344 |
| 50 | 200 | 197 | 204 | 219 | 229 |
| 55 | 122 | 119 | 126 | 135 | 141 |
| 60 | 74 | 73 | 77 | 81 | 85 |
| 65 | 45 | 46 | 48 | 50 | 52 |
| 70 | 28 | 29 | 30 | 31 | 31 |
| 75 | 16 | 16 | 16 | 16 | 17 |
| 80 | 6 | 6 | 6 | 6 | 5 |
| 85 | 0 | 1 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 |



ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|--------|--------|-------------|
| 0-30 | 636 | 44.43 | 44.43 |
| 0-40 | 994 | 69.46 | 69.46 |
| 0-60 | 1363 | 95.21 | 95.21 |
| 0-90 | 1431 | 100.00 | 100.00 |
| 40-90 | 437 | 30.54 | 30.54 |
| 60-90 | 68 | 4.79 | 4.79 |
| 90-180 | 0 | 0.00 | 0.00 |
| 0-180 | 1431 | 100.00 | 100.00 |

** EFFICACY: 46.1 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

| ANGLE | ALONG | 45 | ACROSS |
|-------|-------|-------|--------|
| 45 | 19770 | 20280 | 21694 |
| 55 | 9443 | 9766 | 10975 |
| 65 | 4781 | 5053 | 5485 |
| 75 | 2667 | 2671 | 2963 |
| 85 | 129 | 130 | 0 |

S/MH: 1.3
SC (ALONG): 1.2, SC (ACROSS): 1.3

CERTIFIED BY:

Ryder Young DATE: DEC 19, 2008
PREPARED FOR:

DPP
SEGUNDO, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
 7826 E. EVANS RD.
 SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. 24631

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-80-17WF-63K
 WITH DIFFUSER AND CLEAR FLAT PLASTIC LENS
 24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1432 LMS.
 OPERATING AT 24 VDC AND 31 WATTS

AVERAGE LUMINANCE DATA

| ANGLE | ALONG | CD./SQ.M. | | | (FOOTLAMBERTS) | |
|-------|----------------|----------------|----------------|----------------|----------------|--|
| | | 22.5 | 45 | 67.5 | ACROSS | |
| 0 | 35499 (10361) | 35499 (10361) | 35499 (10361) | 35499 (10361) | 35499 (10361) | |
| 30 | 34690 (10125) | 34336 (10021) | 34793 (10155) | 35010 (10218) | 35553 (10376) | |
| 40 | 26015 (7592) | 26039 (7600) | 26379 (7699) | 27092 (7907) | 27758 (8101) | |
| 45 | 19770 (5770) | 19411 (5665) | 20280 (5919) | 21017 (6134) | 21694 (6331) | |
| 50 | 13798 (4027) | 13682 (3993) | 14126 (4122) | 15160 (4424) | 15867 (4631) | |
| 55 | 9443 (2756) | 9213 (2689) | 9766 (2850) | 10461 (3053) | 10975 (3203) | |
| 60 | 6576 (1919) | 6520 (1902) | 6832 (1994) | 7240 (2113) | 7573 (2210) | |
| 65 | 4781 (1395) | 4812 (1404) | 5053 (1474) | 5239 (1529) | 5485 (1600) | |
| 70 | 3640 (1062) | 3769 (1100) | 3900 (1138) | 3996 (1166) | 4037 (1178) | |
| 75 | 2667 (778) | 2787 (813) | 2671 (779) | 2786 (813) | 2963 (864) | |
| 80 | 1597 (466) | 1603 (467) | 1603 (467) | 1501 (438) | 1271 (371) | |
| 85 | 129 (37) | 325 (95) | 130 (38) | 130 (38) | 0 (0) | |

LIGHTING SCIENCES, INC.
7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. 24631

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-80-17WF-63K
WITH DIFFUSER AND CLEAR FLAT PLASTIC LENS
24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1432 LMS.
OPERATING AT 24 VDC AND 31 WATTS

INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

| ANGLE | PLANE | | | | | | OUTPUT LUMENS |
|-------|-------|------|-----|------|--------|---------|------------------|
| | ALONG | 22.5 | 45 | 67.5 | ACROSS | AVERAGE | |
| 0.0 | 799 | 799 | 799 | 799 | 799 | 799 | |
| 2.5 | 793 | 791 | 795 | 794 | 797 | 794 | |
| 5.0 | 802 | 795 | 798 | 796 | 803 | 798 | 77 |
| 7.5 | 796 | 784 | 792 | 793 | 788 | 790 | |
| 10.0 | 797 | 789 | 790 | 793 | 795 | 792 | |
| 12.5 | 797 | 784 | 784 | 785 | 791 | 787 | |
| 15.0 | 788 | 776 | 783 | 784 | 787 | 782 | 221 |
| 17.5 | 788 | 773 | 775 | 784 | 782 | 779 | |
| 20.0 | 764 | 766 | 771 | 775 | 778 | 771 | |
| 22.5 | 764 | 751 | 757 | 756 | 771 | 758 | |
| 25.0 | 747 | 741 | 738 | 746 | 755 | 744 | 338 |
| 27.5 | 715 | 708 | 710 | 714 | 729 | 713 | |
| 30.0 | 676 | 667 | 676 | 681 | 693 | 677 | |
| 32.5 | 634 | 630 | 630 | 639 | 649 | 635 | |
| 35.0 | 578 | 574 | 578 | 592 | 594 | 582 | 358 |
| 37.5 | 511 | 511 | 515 | 530 | 543 | 521 | |
| 40.0 | 448 | 448 | 454 | 466 | 478 | 458 | |
| 42.5 | 379 | 376 | 385 | 399 | 413 | 389 | |
| 45.0 | 315 | 308 | 321 | 333 | 344 | 323 | 250 |
| 47.5 | 254 | 253 | 261 | 274 | 285 | 265 | |
| 50.0 | 200 | 197 | 204 | 219 | 229 | 209 | |
| 52.5 | 156 | 155 | 162 | 171 | 180 | 164 | |
| 55.0 | 122 | 119 | 126 | 135 | 141 | 128 | 119 |
| 57.5 | 95 | 94 | 99 | 106 | 109 | 100 | |
| 60.0 | 74 | 73 | 77 | 81 | 85 | 78 | |
| 62.5 | 58 | 58 | 61 | 64 | 67 | 61 | |
| 65.0 | 45 | 46 | 48 | 50 | 52 | 48 | 50 |
| 67.5 | 36 | 37 | 38 | 39 | 40 | 38 | |
| 70.0 | 28 | 29 | 30 | 31 | 31 | 30 | |
| 72.5 | 21 | 22 | 22 | 23 | 24 | 22 | |
| 75.0 | 16 | 16 | 16 | 16 | 17 | 16 | 17 |
| 77.5 | 10 | 11 | 10 | 10 | 11 | 10 | |
| 80.0 | 6 | 6 | 6 | 6 | 5 | 6 | |
| 82.5 | 3 | 3 | 3 | 2 | 1 | 2 | |
| 85.0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 87.5 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | |

LIGHTING SCIENCES, INC.
 7826 E. EVANS RD.
 SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. 24631

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-80-17WF-63K
 WITH DIFFUSER AND CLEAR FLAT PLASTIC LENS
 24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1432 LMS.
 OPERATING AT 24 VDC AND 31 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC WALL | 90 | | | | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 | |
|------------|----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-------|-------|------|-------|------|-------|------|------|-----|------|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | 0 | 1.221 | .221 | .221 | .22 | 1.191 | .191 | .191 | .19 | 1.161 | .161 | .161 | .16 | 1.111 | .111 | .111 | .11 | 1.061 | .061 | .061 | .06 | 1.021 | .021 | .021 | .02 | 1.00 |
| | 1 | 1.151 | .111 | .081 | .06 | 1.131 | .091 | .071 | .04 | 1.101 | .071 | .051 | .02 | 1.031 | .010 | .99 | 0.990 | .980 | .96 | 0.960 | .950 | .93 | 0.92 | | | |
| | 2 | 1.081 | .030 | .980 | .93 | 1.061 | .010 | .960 | .92 | 1.040 | .990 | .950 | .91 | 0.950 | .920 | .89 | 0.930 | .900 | .87 | 0.900 | .880 | .85 | 0.84 | | | |
| | 3 | 1.020 | .940 | .880 | .83 | 1.000 | .920 | .870 | .82 | 0.980 | .910 | .860 | .82 | 0.880 | .840 | .80 | 0.860 | .820 | .79 | 0.840 | .810 | .78 | 0.76 | | | |
| | 4 | 0.960 | .860 | .800 | .75 | 0.940 | .850 | .790 | .74 | 0.920 | .840 | .790 | .74 | 0.820 | .770 | .73 | 0.800 | .750 | .72 | 0.780 | .740 | .71 | 0.69 | | | |
| | 5 | 0.900 | .800 | .720 | .67 | 0.880 | .790 | .720 | .67 | 0.860 | .770 | .710 | .66 | 0.750 | .700 | .66 | 0.740 | .690 | .65 | 0.720 | .680 | .65 | 0.63 | | | |
| | 6 | 0.840 | .730 | .660 | .61 | 0.820 | .720 | .650 | .61 | 0.810 | .710 | .650 | .60 | 0.700 | .640 | .60 | 0.680 | .630 | .59 | 0.670 | .620 | .59 | 0.57 | | | |
| | 7 | 0.780 | .670 | .600 | .55 | 0.770 | .660 | .590 | .55 | 0.760 | .650 | .590 | .54 | 0.640 | .580 | .54 | 0.630 | .570 | .53 | 0.620 | .570 | .53 | 0.52 | | | |
| | 8 | 0.730 | .620 | .540 | .50 | 0.720 | .610 | .540 | .49 | 0.710 | .600 | .540 | .49 | 0.590 | .530 | .49 | 0.580 | .520 | .48 | 0.570 | .520 | .48 | 0.47 | | | |
| | 9 | 0.680 | .570 | .490 | .44 | 0.670 | .560 | .490 | .44 | 0.660 | .550 | .490 | .44 | 0.540 | .480 | .44 | 0.530 | .480 | .44 | 0.520 | .470 | .44 | 0.42 | | | |
| | 10 | 0.640 | .520 | .450 | .40 | 0.630 | .520 | .450 | .40 | 0.620 | .510 | .450 | .40 | 0.500 | .440 | .40 | 0.490 | .440 | .40 | 0.480 | .430 | .39 | 0.38 | | | |

LUMINAIRE INPUT WATTS = 31.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
 LUMINOUS OPENING OF LUMINAIRE.