

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: E395327

Luminaire Tested: **L1752**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395327
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L1752
Description: HALO TRAC - WALL WASH
Light Source: 150T4, 2500 LUMENS
Ballast/Driver: -

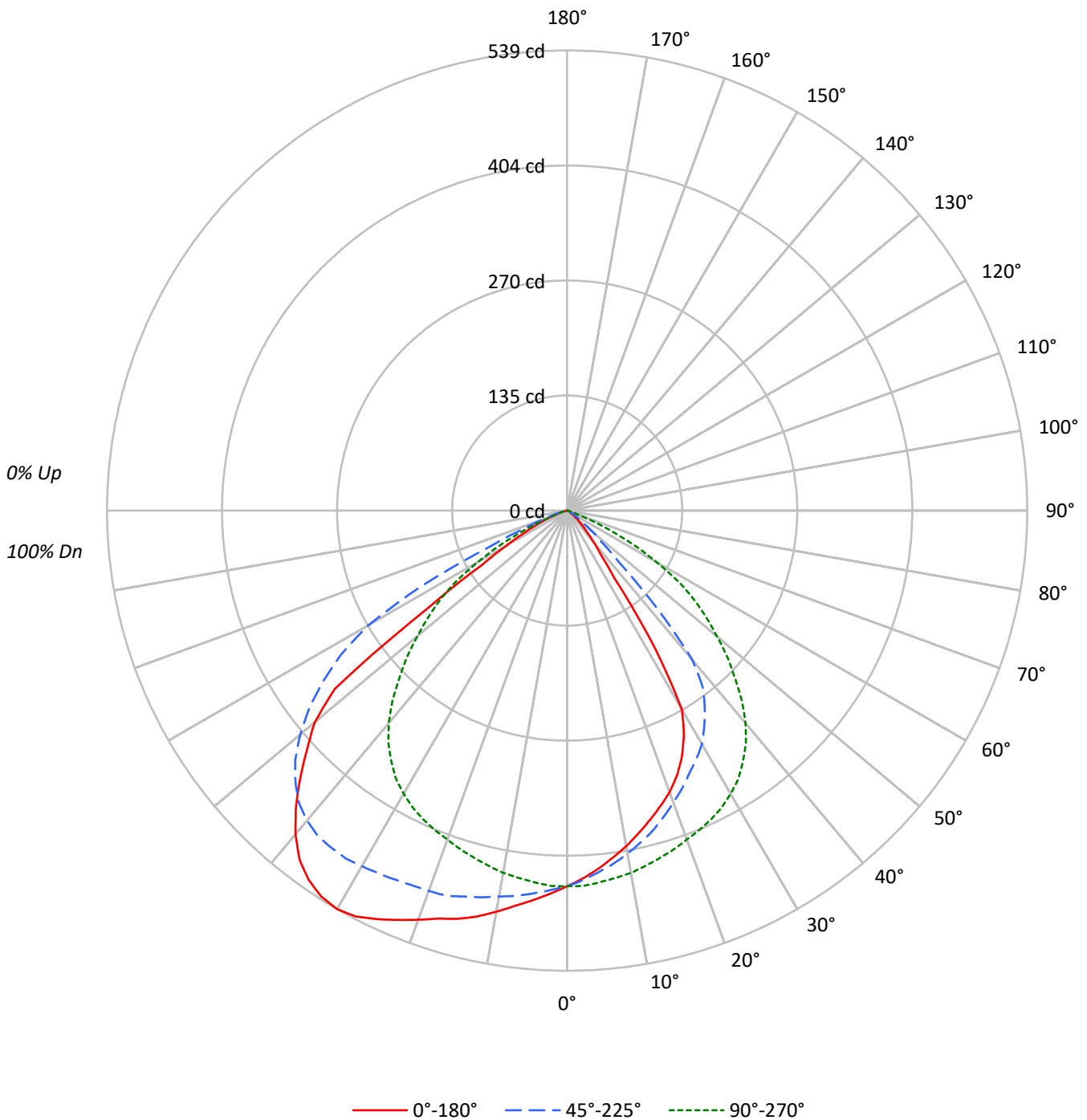
Summary

Lumens per Lamp: 2500 (1 lamp)
Luminaire Lumens: 991.2 lumens
Efficiency: 39.6%
Efficacy: 6.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 47 | 47 | 47 | 47 | 46 | 46 | 46 | 46 | 44 | 44 | 44 | 42 | 42 | 42 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 1 | 44 | 43 | 41 | 40 | 43 | 42 | 41 | 40 | 40 | 39 | 38 | 39 | 38 | 37 | 37 | 37 | 36 | 37 | 37 | 36 | 35 |
| 2 | 41 | 38 | 36 | 34 | 40 | 38 | 36 | 34 | 36 | 35 | 33 | 35 | 34 | 32 | 34 | 33 | 32 | 34 | 33 | 32 | 31 |
| 3 | 38 | 34 | 32 | 29 | 37 | 34 | 31 | 29 | 33 | 30 | 29 | 32 | 30 | 28 | 31 | 29 | 28 | 31 | 29 | 28 | 27 |
| 4 | 35 | 31 | 28 | 26 | 34 | 30 | 28 | 25 | 29 | 27 | 25 | 28 | 26 | 25 | 28 | 26 | 24 | 28 | 26 | 24 | 24 |
| 5 | 32 | 28 | 25 | 22 | 32 | 27 | 24 | 22 | 27 | 24 | 22 | 26 | 24 | 22 | 25 | 23 | 22 | 25 | 23 | 22 | 21 |
| 6 | 30 | 25 | 22 | 20 | 29 | 25 | 22 | 20 | 24 | 22 | 20 | 24 | 21 | 19 | 23 | 21 | 19 | 23 | 21 | 19 | 18 |
| 7 | 28 | 23 | 20 | 18 | 27 | 23 | 20 | 18 | 22 | 19 | 17 | 22 | 19 | 17 | 21 | 19 | 17 | 21 | 19 | 17 | 16 |
| 8 | 26 | 21 | 18 | 16 | 25 | 21 | 18 | 16 | 20 | 18 | 16 | 20 | 17 | 16 | 19 | 17 | 16 | 19 | 17 | 16 | 15 |
| 9 | 24 | 19 | 16 | 14 | 24 | 19 | 16 | 14 | 19 | 16 | 14 | 18 | 16 | 14 | 18 | 16 | 14 | 18 | 16 | 14 | 13 |
| 10 | 23 | 18 | 15 | 13 | 22 | 18 | 15 | 13 | 17 | 15 | 13 | 17 | 15 | 13 | 17 | 14 | 13 | 17 | 14 | 13 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--|-----|------|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 41.7 | 4.2 | 1.7 |
| 10°-20° | 120.9 | 12.2 | 4.8 |
| 20°-30° | 189.2 | 19.1 | 7.6 |
| 30°-40° | 224.2 | 22.6 | 9.0 |
| 40°-50° | 209.6 | 21.1 | 8.4 |
| 50°-60° | 148.7 | 15.0 | 5.9 |
| 60°-70° | 50.6 | 5.1 | 2.0 |
| 70°-80° | 5.9 | 0.6 | 0.2 |
| 80°-90° | 0.4 | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 351.8 | 35.5 | 14.1 |
| 0°-40° | 576.0 | 58.1 | 23.0 |
| 0°-60° | 934.3 | 94.3 | 37.4 |
| 0°-90° | 991.2 | 100.0 | 39.6 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 991.2 | 100.0 | 39.6 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 440 | 440 | 440 | 440 | 440 | |
| 5° | 421 | 425 | 437 | 450 | 458 | 40 |
| 15° | 375 | 388 | 421 | 468 | 495 | 106 |
| 25° | 318 | 339 | 399 | 477 | 528 | 145 |
| 35° | 96 | 281 | 359 | 482 | 528 | 77 |
| 45° | 26 | 87 | 278 | 450 | 442 | 21 |
| 55° | 6 | 17 | 181 | 349 | 197 | 7 |
| 65° | 5 | 4 | 58 | 99 | 38 | 4 |
| 75° | 2 | 2 | 4 | 9 | 5 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0° | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 |
| 2.5° | 431 | 432 | 432 | 432 | 432 | 433 | 435 | 435 | 437 | 439 | 440 |
| 5° | 421 | 421 | 422 | 422 | 423 | 425 | 428 | 430 | 433 | 436 | 437 |
| 7.5° | 410 | 411 | 412 | 412 | 415 | 417 | 420 | 423 | 427 | 432 | 434 |
| 10° | 399 | 400 | 401 | 402 | 404 | 408 | 412 | 416 | 421 | 428 | 431 |
| 12.5° | 387 | 388 | 390 | 391 | 394 | 398 | 402 | 408 | 414 | 422 | 426 |
| 15° | 375 | 375 | 378 | 379 | 383 | 388 | 393 | 400 | 407 | 416 | 421 |
| 17.5° | 363 | 363 | 364 | 366 | 370 | 376 | 383 | 391 | 400 | 410 | 416 |
| 20° | 351 | 350 | 350 | 354 | 358 | 364 | 373 | 382 | 393 | 404 | 410 |
| 22.5° | 336 | 338 | 338 | 341 | 345 | 352 | 362 | 374 | 385 | 398 | 405 |
| 25° | 318 | 319 | 320 | 327 | 332 | 339 | 351 | 365 | 378 | 391 | 399 |
| 27.5° | 296 | 298 | 300 | 307 | 318 | 328 | 340 | 355 | 369 | 384 | 392 |
| 30° | 269 | 272 | 277 | 286 | 298 | 316 | 329 | 344 | 360 | 375 | 383 |
| 32.5° | 193 | 197 | 230 | 257 | 278 | 299 | 318 | 332 | 349 | 363 | 373 |
| 35° | 96 | 96 | 127 | 190 | 254 | 281 | 307 | 321 | 336 | 350 | 359 |
| 37.5° | 64 | 64 | 74 | 98 | 194 | 261 | 290 | 306 | 322 | 334 | 344 |
| 40° | 48 | 47 | 53 | 64 | 108 | 228 | 271 | 290 | 305 | 316 | 325 |
| 42.5° | 35 | 34 | 39 | 48 | 67 | 159 | 249 | 274 | 284 | 296 | 303 |
| 45° | 26 | 25 | 27 | 34 | 49 | 87 | 221 | 255 | 263 | 273 | 278 |
| 47.5° | 19 | 20 | 21 | 25 | 35 | 56 | 171 | 231 | 240 | 248 | 255 |
| 50° | 14 | 15 | 16 | 19 | 24 | 39 | 99 | 205 | 216 | 221 | 229 |
| 52.5° | 10 | 10 | 11 | 14 | 18 | 25 | 55 | 176 | 194 | 198 | 205 |
| 55° | 6 | 6 | 7 | 9 | 13 | 17 | 35 | 139 | 173 | 175 | 181 |
| 57.5° | 5 | 5 | 5 | 6 | 9 | 12 | 21 | 87 | 150 | 149 | 154 |
| 60° | 5 | 5 | 5 | 5 | 5 | 8 | 11 | 45 | 123 | 120 | 121 |
| 62.5° | 5 | 5 | 5 | 5 | 4 | 5 | 8 | 24 | 91 | 92 | 91 |
| 65° | 5 | 5 | 4 | 4 | 4 | 4 | 5 | 10 | 55 | 57 | 58 |
| 67.5° | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 27 | 28 | 31 |
| 70° | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 9 | 12 | 13 |
| 72.5° | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 6 | 7 |
| 75° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| 77.5° | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 80° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-----|------|------|------|------|------|------|------|------|------|
| 0° | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 |
| 2.5° | 441 | 441 | 443 | 444 | 445 | 448 | 448 | 449 | 449 | 449 |
| 5° | 439 | 442 | 445 | 448 | 450 | 454 | 456 | 456 | 457 | 458 |
| 7.5° | 437 | 441 | 446 | 451 | 455 | 459 | 463 | 465 | 466 | 467 |
| 10° | 434 | 440 | 447 | 454 | 459 | 466 | 471 | 474 | 477 | 477 |
| 12.5° | 430 | 438 | 446 | 456 | 464 | 473 | 478 | 484 | 487 | 487 |
| 15° | 426 | 436 | 446 | 457 | 468 | 479 | 486 | 491 | 494 | 495 |
| 17.5° | 421 | 433 | 445 | 459 | 473 | 483 | 491 | 497 | 501 | 501 |
| 20° | 417 | 430 | 445 | 460 | 474 | 486 | 497 | 505 | 509 | 510 |
| 22.5° | 412 | 427 | 444 | 462 | 475 | 489 | 503 | 513 | 518 | 519 |
| 25° | 407 | 424 | 443 | 461 | 477 | 494 | 509 | 521 | 528 | 528 |
| 27.5° | 400 | 420 | 442 | 460 | 479 | 498 | 514 | 527 | 534 | 536 |
| 30° | 393 | 414 | 440 | 459 | 481 | 501 | 518 | 530 | 538 | 539 |
| 32.5° | 383 | 407 | 434 | 458 | 483 | 503 | 518 | 529 | 536 | 536 |
| 35° | 371 | 398 | 427 | 457 | 482 | 502 | 515 | 524 | 528 | 528 |
| 37.5° | 355 | 386 | 419 | 454 | 480 | 497 | 506 | 512 | 515 | 515 |
| 40° | 336 | 371 | 409 | 448 | 474 | 486 | 492 | 495 | 497 | 495 |
| 42.5° | 315 | 352 | 396 | 439 | 465 | 473 | 472 | 472 | 472 | 470 |
| 45° | 291 | 329 | 380 | 425 | 450 | 455 | 447 | 443 | 444 | 442 |
| 47.5° | 266 | 305 | 360 | 410 | 432 | 428 | 420 | 414 | 415 | 413 |
| 50° | 241 | 279 | 336 | 387 | 408 | 402 | 390 | 384 | 388 | 386 |
| 52.5° | 216 | 254 | 306 | 360 | 381 | 373 | 357 | 347 | 336 | 343 |
| 55° | 189 | 228 | 277 | 325 | 349 | 340 | 313 | 257 | 203 | 197 |
| 57.5° | 160 | 195 | 245 | 291 | 314 | 295 | 193 | 138 | 123 | 118 |
| 60° | 128 | 157 | 205 | 253 | 269 | 184 | 115 | 95 | 86 | 83 |
| 62.5° | 96 | 118 | 162 | 212 | 195 | 103 | 80 | 62 | 57 | 56 |
| 65° | 62 | 77 | 114 | 163 | 99 | 68 | 52 | 41 | 38 | 38 |
| 67.5° | 34 | 43 | 63 | 94 | 54 | 42 | 34 | 27 | 23 | 24 |
| 70° | 14 | 20 | 28 | 36 | 29 | 26 | 20 | 17 | 14 | 14 |
| 72.5° | 7 | 10 | 13 | 15 | 16 | 15 | 11 | 10 | 9 | 9 |
| 75° | 5 | 6 | 7 | 7 | 9 | 9 | 7 | 6 | 6 | 5 |
| 77.5° | 3 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 3 | 3 |
| 80° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)