

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: H23152

Luminaire Tested: **H46T-466**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H23152
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H46T-466
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
Light Source: 90PAR38FL 90 WATTS 1250 LUMENS
PAR38 FLOOD
Ballast/Driver: -

Summary

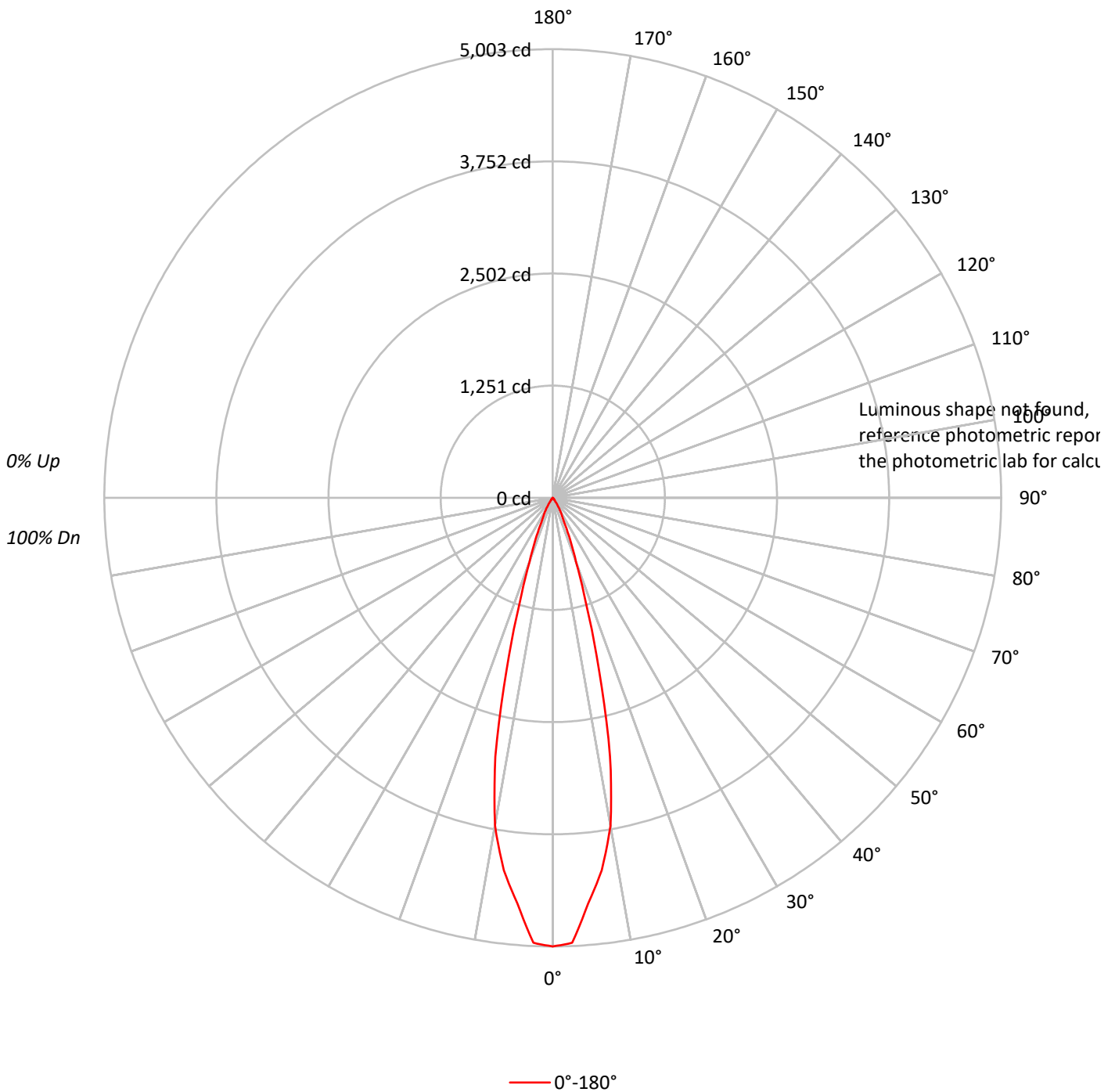
Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 1171.1 lumens
Efficiency: 93.7%
Efficacy: 13.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.43
Luminous Opening: (L: 0 ' x W: -0.63 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 90
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



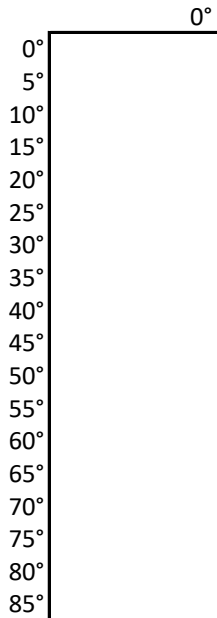


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	109	109	109	109	104	104	104	100	100	100	96	96	96	94
1	108	106	104	103	106	104	102	101	100	99	98	97	96	95	94	93	92	91
2	104	101	98	96	102	99	97	95	97	95	93	94	92	91	91	90	89	88
3	101	97	93	91	99	96	93	90	93	91	89	91	89	87	89	88	86	85
4	98	93	89	87	97	92	89	86	90	87	85	89	86	84	87	85	83	82
5	95	90	86	83	94	89	85	83	87	84	82	86	83	81	85	83	81	80
6	92	87	83	80	91	86	82	80	85	82	79	84	81	79	83	80	78	77
7	90	84	80	77	89	83	80	77	82	79	77	81	79	77	81	78	76	75
8	87	81	78	75	87	81	77	75	80	77	75	79	76	74	79	76	74	73
9	85	79	75	73	84	79	75	73	78	75	72	77	74	72	77	74	72	71
10	83	77	73	71	82	77	73	71	76	73	71	75	72	70	75	72	70	69

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	410.0	35.0	32.8
10°-20°	549.4	46.9	44.0
20°-30°	162.2	13.9	13.0
30°-40°	39.9	3.4	3.2
40°-50°	7.6	0.6	0.6
50°-60°	2.0	0.2	0.2
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	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°	1121.6	95.8	89.7
0°-40°	1161.5	99.2	92.9
0°-60°	1171.1	100.0	93.7
0°-90°	1171.1	100.0	93.7
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°	1171.1	100.0	93.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	5003	
5°	4539	410
15°	1988	549
25°	302	162
35°	53	40
45°	9	8
55°	3	2
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5003
2.5°	4967
5°	4539
7.5°	4189
10°	3712
12.5°	2955
15°	1988
17.5°	1219
20°	757
22.5°	497
25°	302
27.5°	215
30°	156
32.5°	96
35°	53
37.5°	29
40°	18
42.5°	14
45°	9
47.5°	6
50°	4
52.5°	3
55°	3
57.5°	1
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)