

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: H23153

Luminaire Tested: **H46T-468**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H23153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H46T-468
Description: HALO 8" DIA RECESSED DOWNLIGHT
BAFFLE
Light Source: 90PAR38FL 90 WATTS 1250 LUMENS
PAR38 FLOOD
Ballast/Driver: -

Summary

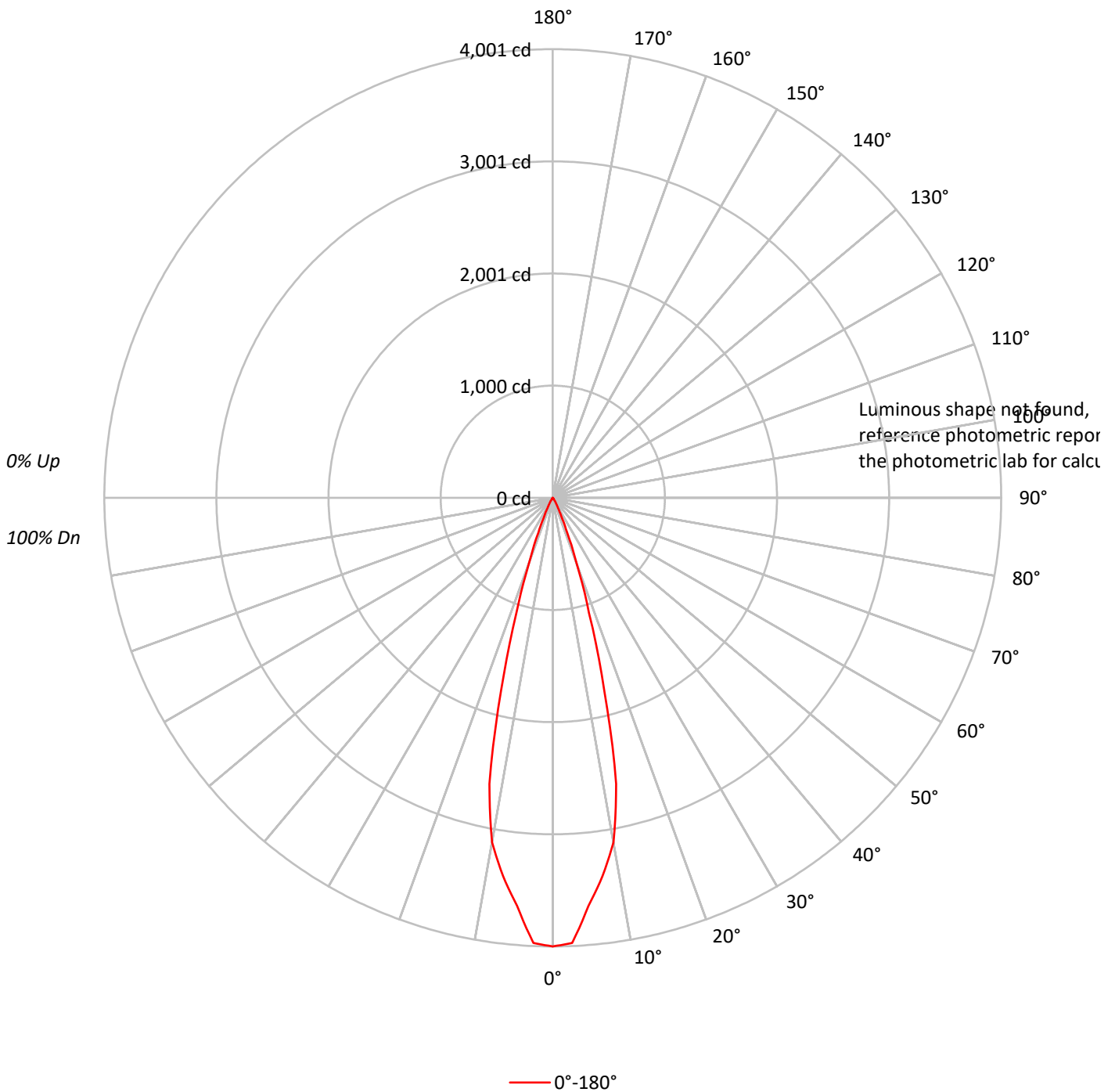
Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 933.0 lumens
Efficiency: 74.6%
Efficacy: 10.4 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.44
Luminous Opening: (L: 0 ' x W: -0.62 ' x H: 0 '
CIE Type: Direct

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



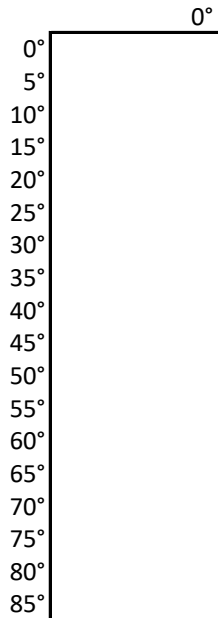


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75	75	75	75	75	75	75	75	75	75	75	75	75	75															
1	86	84	83	82	84	83	82	81	80	79	78	77	76	76	75	74	74	72	72	72	72	72	72	72	72	72	72	72	72	72	72															
2	83	81	79	77	82	80	78	76	77	76	74	75	74	73	73	72	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70															
3	81	78	75	73	80	77	74	72	75	73	71	73	72	70	72	70	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68															
4	79	75	72	70	77	74	71	69	73	70	69	71	69	68	70	68	67	66	66	66	66	66	66	66	66	66	66	66	66	66	66															
5	76	72	69	67	75	72	69	67	70	68	66	69	67	66	68	67	66	65	65	65	65	65	65	65	65	65	65	65	65	65	65															
6	74	70	67	65	73	69	67	65	68	66	64	68	66	64	67	65	64	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
7	72	68	65	63	72	67	65	63	67	64	62	66	64	62	65	63	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61															
8	71	66	63	61	70	66	63	61	65	62	61	64	62	60	64	62	60	59	59	59	59	59	59	59	59	59	59	59	59	59	59															
9	69	64	61	59	68	64	61	59	63	61	59	63	61	59	62	60	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
10	67	63	60	58	67	62	60	58	62	59	58	61	59	58	61	59	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	333.5	35.7	26.7
10°-20°	480.8	51.5	38.5
20°-30°	102.6	11.0	8.2
30°-40°	13.6	1.5	1.1
40°-50°	1.8	0.2	0.1
50°-60°	0.8	0.1	0.1
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°	916.9	98.3	73.3
0°-40°	930.5	99.7	74.4
0°-60°	933.0	100.0	74.6
0°-90°	933.0	100.0	74.6
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°	933.0	100.0	74.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	4001	
5°	3652	333
15°	1778	481
25°	171	103
35°	16	14
45°	2	2
55°	1	1
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°	4001
2.5°	3973
5°	3652
7.5°	3403
10°	3119
12.5°	2612
15°	1778
17.5°	1077
20°	625
22.5°	336
25°	171
27.5°	100
30°	59
32.5°	33
35°	16
37.5°	9
40°	6
42.5°	3
45°	2
47.5°	1
50°	1
52.5°	1
55°	1
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)