

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: E395586

Luminaire Tested: **H43-438**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395586
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H43-438
Description: HALO RECESSED INCANDESCENT DOWNLIGHT
 BAFFLE TRIM
Light Source: 75R30SP 75 WATTS 900 LUMENS
Ballast/Driver: -

Summary

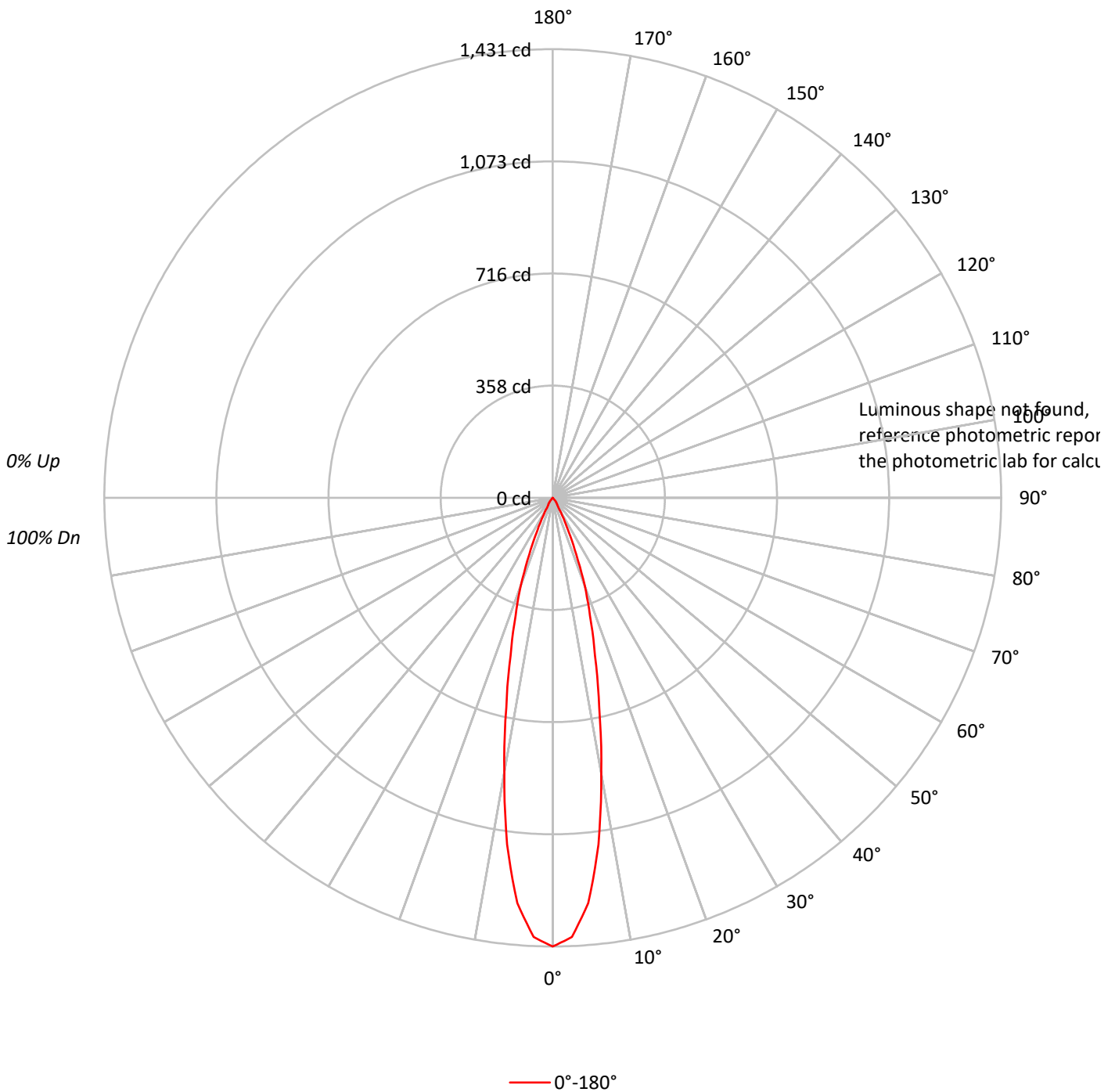
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 334.3 lumens
Efficiency: 37.1%
Efficacy: 4.5 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.44
Luminous Opening: (L: -0.38 ' x W: 0 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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



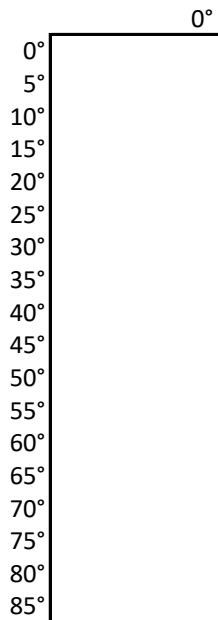


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	44	44	44	44	43	43	43	43	41	41	41		40	40	40		38	38	38	37
1	43	42	41	41	42	41	40	40	40	39	39		38	38	38		37	37	36	36
2	41	40	39	38	41	39	38	37	38	37	37		37	36	36		36	36	35	35
3	40	38	37	36	39	38	36	35	37	36	35		36	35	34		35	34	34	33
4	39	37	35	34	38	36	35	34	36	34	33		35	34	33		34	33	33	32
5	38	35	34	33	37	35	34	32	34	33	32		34	33	32		33	32	32	31
6	36	34	32	31	36	34	32	31	33	32	31		33	32	31		32	31	31	30
7	35	33	31	30	35	33	31	30	32	31	30		32	31	30		32	30	30	29
8	34	32	30	29	34	32	30	29	31	30	29		31	30	29		31	30	29	28
9	33	31	29	28	33	31	29	28	30	29	28		30	29	28		30	29	28	28
10	32	30	28	27	32	30	28	27	30	28	27		29	28	27		29	28	27	27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	110.5	33.1	12.3
10°-20°	147.1	44.0	16.3
20°-30°	61.1	18.3	6.8
30°-40°	14.5	4.3	1.6
40°-50°	1.1	0.3	0.1
50°-60°	0.0	0.0	0.0
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°	318.7	95.3	35.4
0°-40°	333.2	99.7	37.0
0°-60°	334.3	100.0	37.1
0°-90°	334.3	100.0	37.1
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°	334.3	100.0	37.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1431	
5°	1298	111
15°	521	147
25°	120	61
35°	23	14
45°	0	1
55°	0	0
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°	1431
2.5°	1402
5°	1298
7.5°	1115
10°	892
12.5°	685
15°	521
17.5°	395
20°	297
22.5°	195
25°	120
27.5°	75
30°	38
32.5°	28
35°	23
37.5°	18
40°	12
42.5°	0
45°	0
47.5°	0
50°	0
52.5°	0
55°	0
57.5°	0
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)