

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H36043

Luminaire Tested: **H5ICAT 5010W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H36043  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H5ICAT 5010W  
Description: HALO 5" DIA RECESSED DOWNLIGHT  
WHITE BAFFLE  
LOW SOCKET SETTING  
Light Source: 50PAR30/FL/H 50 WATTS 670 LUMENS  
PAR30 HALOGEN FLOOD  
Ballast/Driver: -

**Summary**

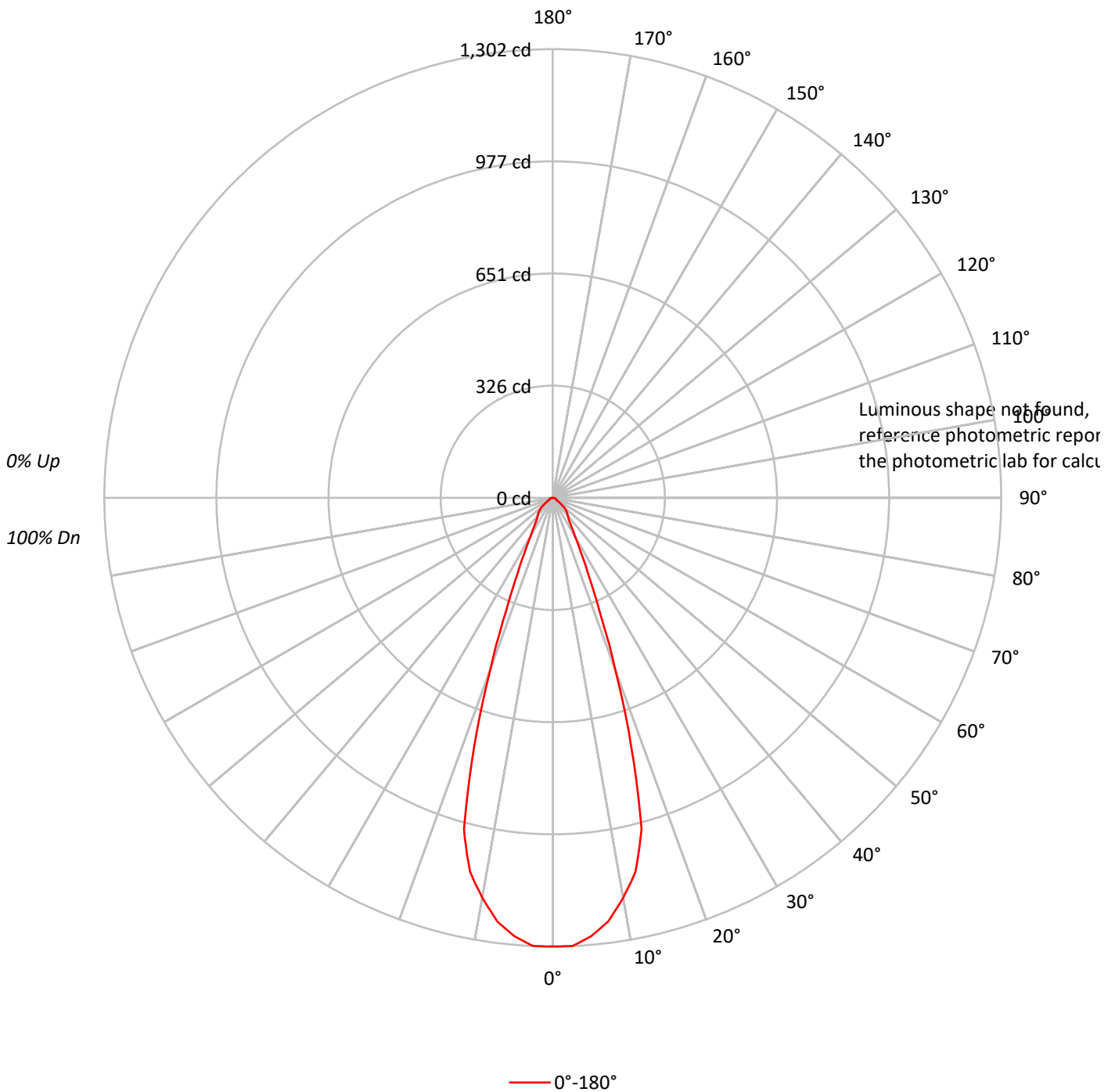
Lumens per Lamp: 670 (1 lamp)  
Luminaire Lumens: 638.0 lumens  
Efficiency: 95.2%  
Efficacy: 12.8 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.56  
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





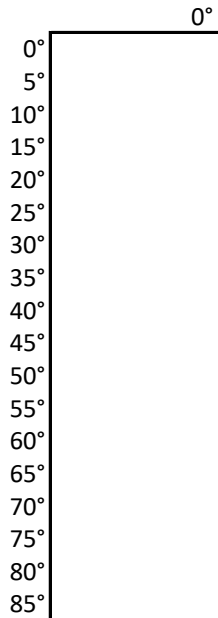
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	113	113	113	113	111	111	111	111	106	106	106		101	101	101		97	97	97	95
1	108	105	103	101	106	103	101	99	99	98	96		96	95	93		93	92	91	89
2	103	98	94	91	101	97	93	90	94	91	88		91	88	86		88	86	85	83
3	98	92	88	84	96	91	87	83	88	85	82		86	83	81		84	81	79	78
4	94	87	82	78	92	86	81	77	84	80	77		82	78	76		80	77	75	73
5	90	82	77	73	88	81	76	73	80	75	72		78	74	71		77	73	71	69
6	86	78	73	69	84	77	72	69	76	71	68		74	71	68		73	70	67	66
7	82	74	69	65	81	73	68	65	72	68	65		71	67	64		70	67	64	63
8	79	71	65	62	78	70	65	62	69	65	62		68	64	61		67	64	61	60
9	76	68	63	59	75	67	62	59	66	62	59		66	61	59		65	61	58	57
10	73	65	60	57	72	64	60	56	64	59	56		63	59	56		62	59	56	55

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	118.8	18.6	17.7
10°-20°	254.0	39.8	37.9
20°-30°	121.2	19.0	18.1
30°-40°	56.1	8.8	8.4
40°-50°	43.4	6.8	6.5
50°-60°	22.6	3.5	3.4
60°-70°	10.9	1.7	1.6
70°-80°	8.2	1.3	1.2
80°-90°	2.9	0.4	0.4
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°	494.0	77.4	73.7
0°-40°	550.1	86.2	82.1
0°-60°	616.1	96.6	92.0
0°-90°	638.0	100.0	95.2
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°	638.0	100.0	95.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1302	
5°	1277	119
15°	996	254
25°	240	121
35°	86	56
45°	57	43
55°	24	23
65°	11	11
75°	8	8
85°	3	3
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°	1302
2.5°	1302
5°	1277
7.5°	1239
10°	1178
12.5°	1111
15°	996
17.5°	759
20°	531
22.5°	350
25°	240
27.5°	172
30°	129
32.5°	102
35°	86
37.5°	75
40°	68
42.5°	63
45°	57
47.5°	50
50°	43
52.5°	33
55°	24
57.5°	17
60°	13
62.5°	12
65°	11
67.5°	10
70°	9
72.5°	9
75°	8
77.5°	7
80°	5
82.5°	4
85°	3
87.5°	1
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)