

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: H36052

Luminaire Tested: **H5ICAT 5010W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H36052  
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  
HIGH SOCKET SETTING  
Light Source: 50R30FL 50 WATTS 525 LUMENS  
R30 FLOOD  
Ballast/Driver: -

**Summary**

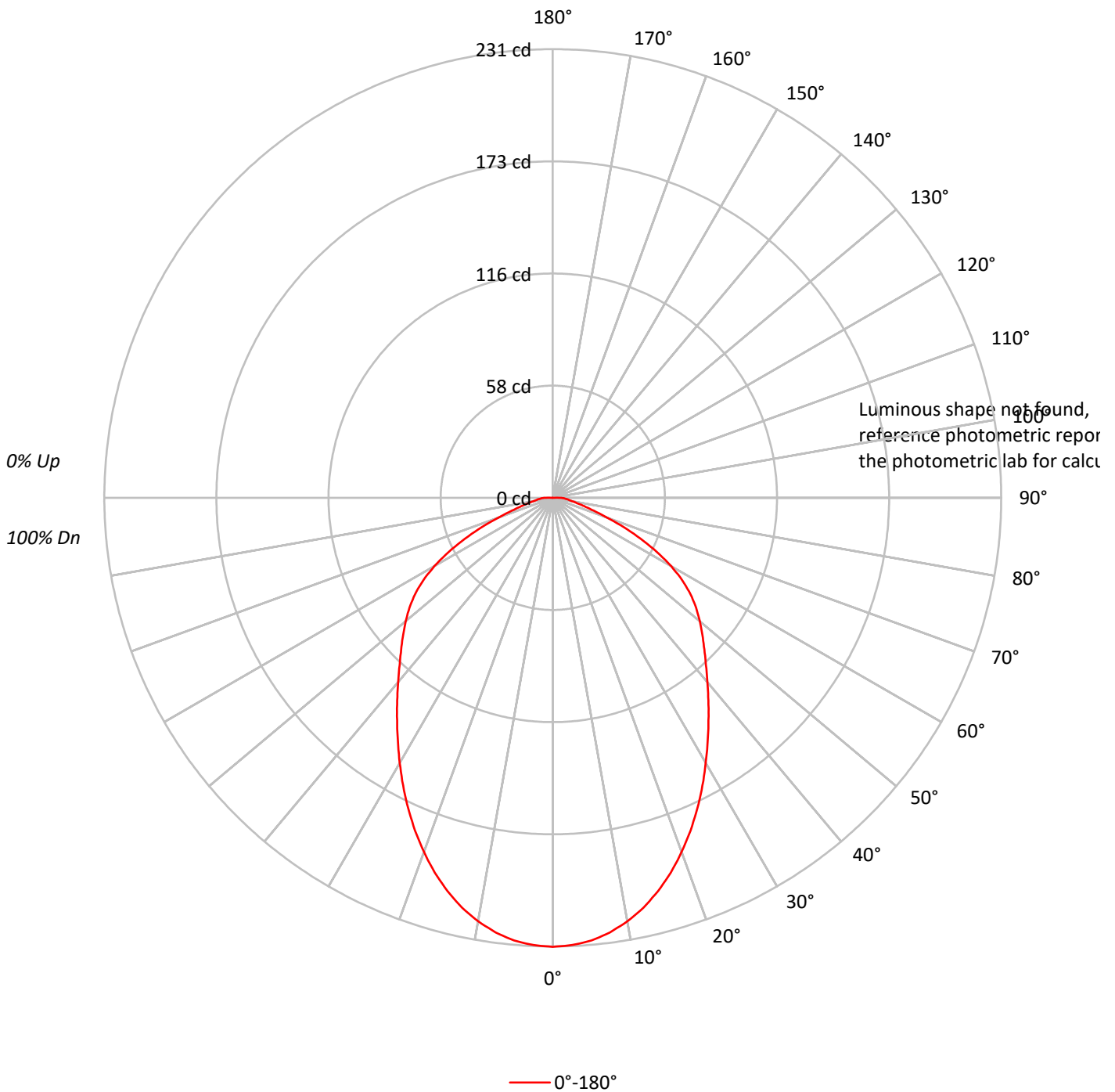
Lumens per Lamp: 525 (1 lamp)  
Luminaire Lumens: 488.2 lumens  
Efficiency: 93.0%  
Efficacy: 9.8 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.16  
Luminous Opening: (L: 0' x W: -0.4' x H: 0'  
CIE Type: Direct

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



TEST NUMBER: H36052  
CATALOG NUMBER: H5ICAT 5010W

### Luminous Intensity Polar Plot





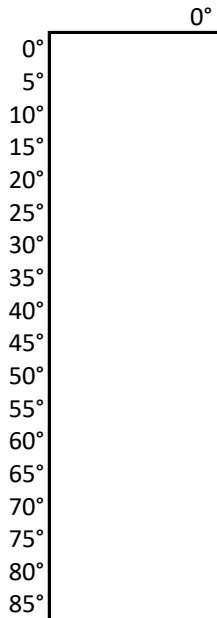
TEST NUMBER: H36052

CATALOG NUMBER: H5ICAT 5010W

**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	111	111	111	111	108	108	108	108	103	103	103		99	99	99		95	95	95	93
1	102	98	94	91	100	96	93	90	92	89	87		88	86	84		85	83	82	80
2	94	86	81	76	91	85	79	75	81	77	73		78	75	71		76	73	70	68
3	86	77	70	64	84	75	69	63	72	67	62		70	65	61		68	64	60	58
4	79	68	61	55	77	67	60	55	65	59	54		63	57	53		61	56	52	50
5	73	62	54	48	71	61	53	48	59	52	47		57	51	47		55	50	46	44
6	68	56	48	42	66	55	47	42	53	47	42		52	46	41		50	45	41	39
7	63	51	43	38	61	50	43	37	49	42	37		47	41	37		46	41	37	35
8	59	47	39	34	57	46	39	34	45	38	34		44	38	33		43	37	33	31
9	55	43	36	31	54	42	35	31	41	35	30		40	35	30		39	34	30	28
10	52	40	33	28	51	39	33	28	38	32	28		38	32	28		37	31	28	26

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





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CATALOG NUMBER: H5ICAT 5010W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.6	4.4	4.1
10°-20°	58.8	12.0	11.2
20°-30°	81.0	16.6	15.4
30°-40°	87.6	18.0	16.7
40°-50°	85.5	17.5	16.3
50°-60°	76.8	15.7	14.6
60°-70°	49.4	10.1	9.4
70°-80°	18.9	3.9	3.6
80°-90°	7.8	1.6	1.5
90°-100°	0.6	0.1	0.1
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°	161.5	33.1	30.8
0°-40°	249.1	51.0	47.4
0°-60°	411.4	84.3	78.4
0°-90°	487.6	99.9	92.9
90°-120°	0.6	0.1	0.1
90°-150°	0.6	0.1	0.1
90°-180°	1.0	0.2	0.2
0°-180°	488.2	100.0	93.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	231	
5°	229	22
15°	210	59
25°	176	81
35°	140	88
45°	110	86
55°	87	77
65°	50	49
75°	17	19
85°	7	6
90°	4	2
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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CATALOG NUMBER: H5ICAT 5010W

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	231.2
2.5°	230.5
5°	228.8
7.5°	225.7
10°	221.4
12.5°	216.1
15°	209.6
17.5°	202.3
20°	194.0
22.5°	185.4
25°	176.3
27.5°	167.0
30°	157.6
32.5°	148.5
35°	139.8
37.5°	131.6
40°	123.9
42.5°	116.8
45°	110.4
47.5°	104.5
50°	98.9
52.5°	93.1
55°	86.7
57.5°	79.2
60°	70.3
62.5°	60.5
65°	49.9
67.5°	39.6
70°	30.0
72.5°	22.1
75°	16.7
77.5°	12.9
80°	10.3
82.5°	8.5
85°	7.1
87.5°	5.8
90°	4.3
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CATALOG NUMBER: H5ICAT 5010W

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)