

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: H36055

Luminaire Tested: **H5ICAT 5021RG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H36055  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H5ICAT 5021RG  
Description: HALO 5" DIA RECESSED DOWNLIGHT  
RESIDENTIAL GOLD REFLECTOR  
Light Source: 40A19 40 WATTS 495 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

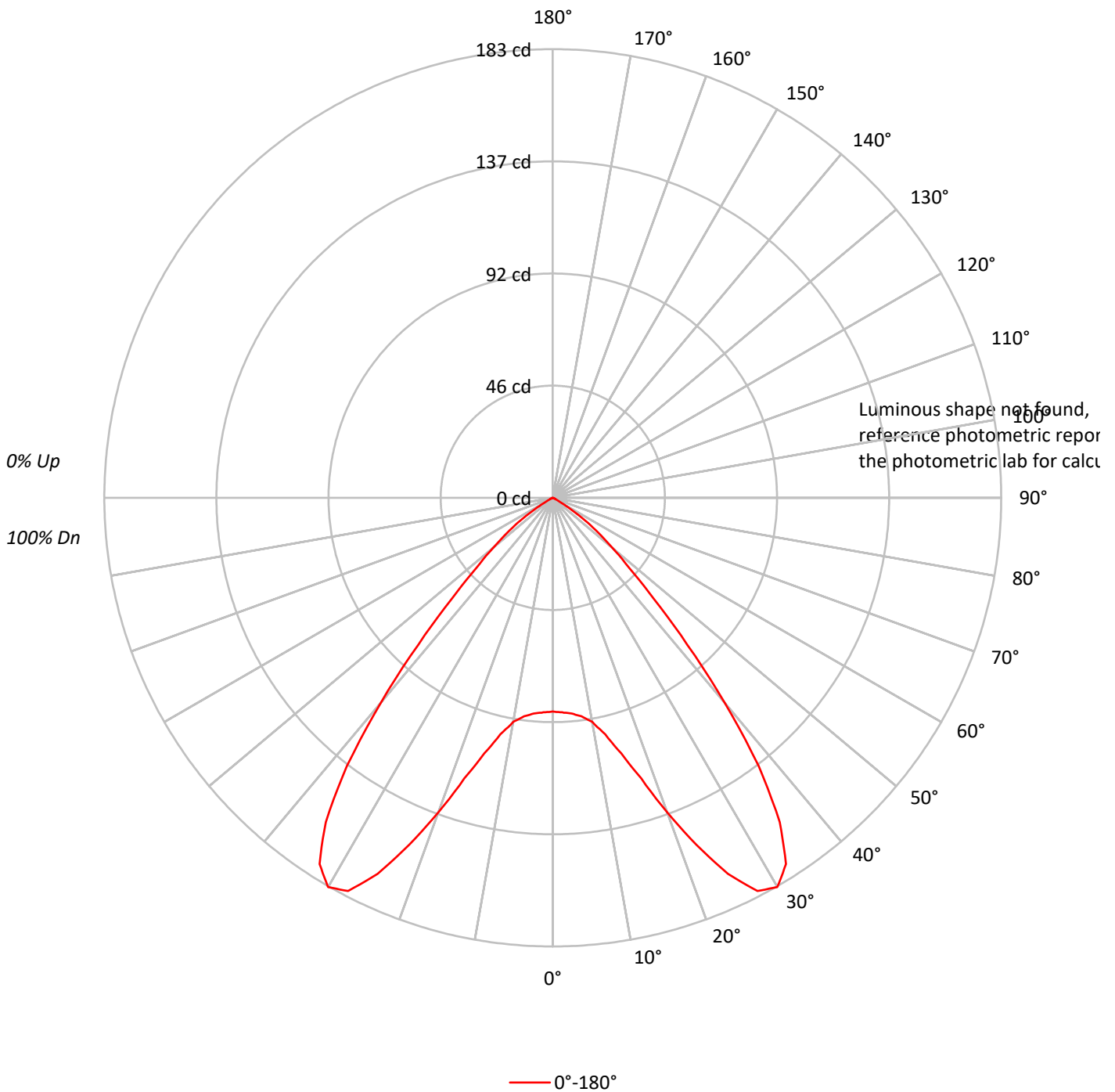
Lumens per Lamp: 495 (1 lamp)  
Luminaire Lumens: 279.1 lumens  
Efficiency: 56.4%  
Efficacy: 7.0 lumens/watt  
Spacing Criteria (0/90/45): 1.73 / 1.73 / 1.4  
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 40  
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





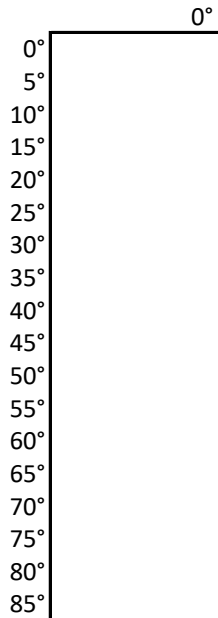
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	67	67	67	67	66	66	66	66	63	63	63		60	60	60		58	58	58	56
1	63	61	60	58	62	60	59	57	58	57	56		56	55	54		54	53	52	51
2	59	56	53	51	58	55	52	50	53	51	49		51	50	48		50	48	47	46
3	55	51	48	45	54	50	47	44	49	46	44		47	45	43		46	44	42	41
4	52	46	43	40	51	46	42	39	44	41	39		43	41	38		42	40	38	37
5	48	42	38	35	47	42	38	35	41	37	35		40	37	34		39	36	34	33
6	45	39	35	32	44	38	34	31	37	34	31		36	33	31		36	33	31	30
7	42	35	31	28	41	35	31	28	34	31	28		33	30	28		33	30	28	27
8	39	33	28	26	38	32	28	26	32	28	25		31	28	25		30	27	25	24
9	37	30	26	23	36	30	26	23	29	26	23		28	25	23		28	25	23	22
10	34	28	24	21	34	27	24	21	27	23	21		26	23	21		26	23	21	20

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.6	3.1	1.7
10°-20°	31.9	11.4	6.4
20°-30°	77.4	27.7	15.6
30°-40°	96.9	34.7	19.6
40°-50°	47.9	17.2	9.7
50°-60°	14.4	5.2	2.9
60°-70°	1.4	0.5	0.3
70°-80°	0.4	0.2	0.1
80°-90°	0.1	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°	117.9	42.2	23.8
0°-40°	214.8	77.0	43.4
0°-60°	277.1	99.3	56.0
0°-90°	279.1	100.0	56.4
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°	279.1	100.0	56.4

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	87	
5°	88	9
15°	108	32
25°	169	77
35°	162	97
45°	58	48
55°	16	14
65°	1	1
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°	87.2
2.5°	87.6
5°	88.3
7.5°	89.9
10°	92.8
12.5°	98.8
15°	107.9
17.5°	120.0
20°	136.5
22.5°	153.2
25°	169.2
27.5°	180.8
30°	183.3
32.5°	177.1
35°	161.5
37.5°	138.0
40°	109.1
42.5°	81.2
45°	58.1
47.5°	42.2
50°	31.7
52.5°	23.4
55°	16.0
57.5°	8.4
60°	3.5
62.5°	1.6
65°	1.1
67.5°	0.8
70°	0.7
72.5°	0.5
75°	0.4
77.5°	0.3
80°	0.2
82.5°	0.1
85°	0.1
87.5°	0.1
90°	0.0
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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**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)