

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: H36054

Luminaire Tested: **H5ICAT 5021SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36054
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5ICAT 5021SC
Description: HALO 5" DIA RECESSED DOWNLIGHT
SPECULAR CLEAR REFLECTOR
Light Source: 40A19 40 WATTS 495 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

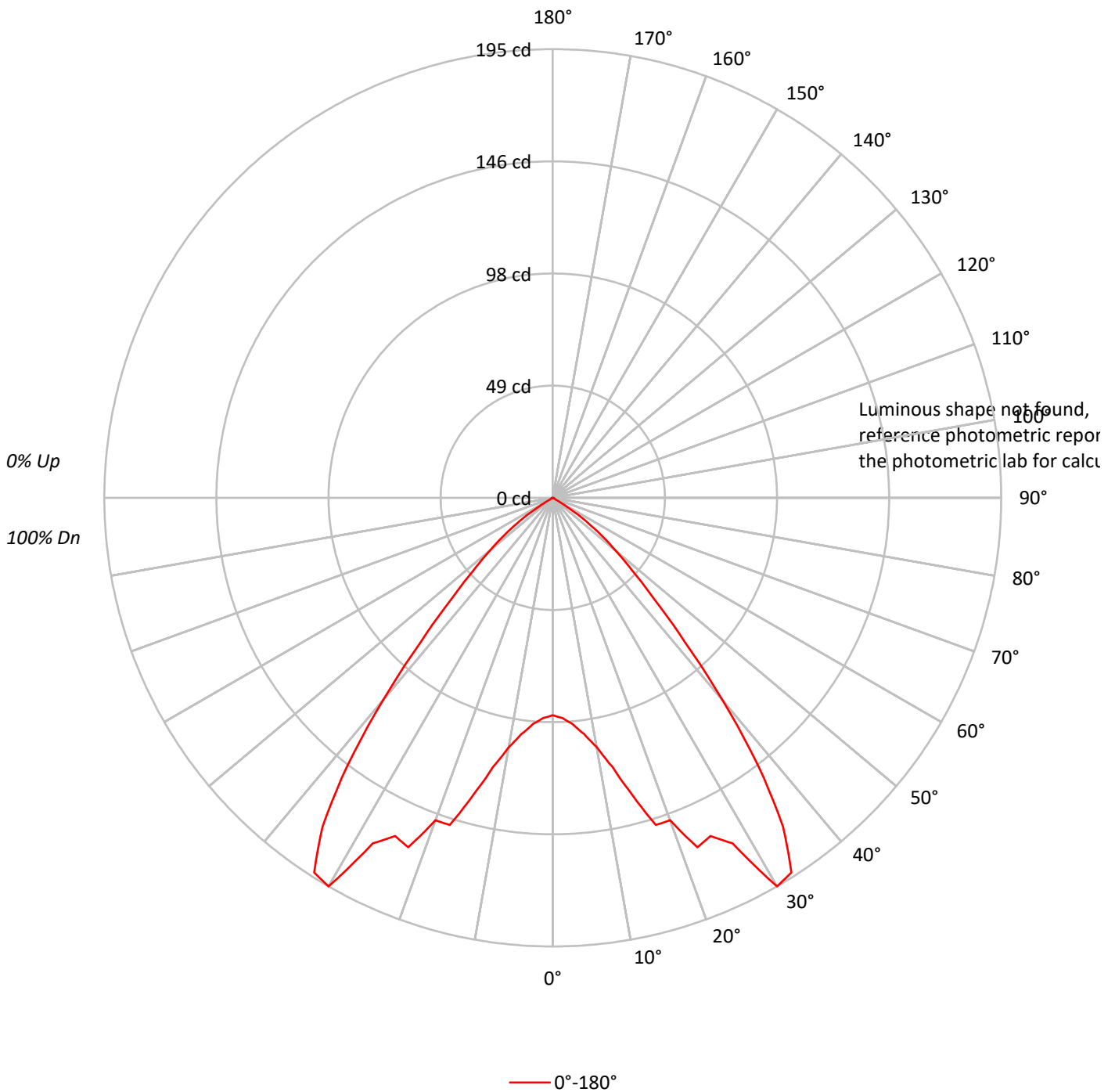
Lumens per Lamp: 495 (1 lamp)
Luminaire Lumens: 297.6 lumens
Efficiency: 60.1%
Efficacy: 7.4 lumens/watt
Spacing Criteria (0/90/45): 1.71 / 1.71 / 1.4
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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





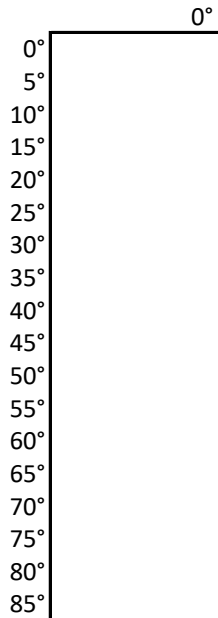
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	72	72	72	72	70	70	70	70	67	67	67		64	64	64		61	61	61	60
1	68	66	64	62	66	64	63	61	62	61	59		60	59	58		57	57	56	55
2	63	60	57	54	62	59	56	54	57	55	53		55	53	51		53	52	50	49
3	59	54	51	48	58	54	50	48	52	49	47		50	48	46		49	47	45	44
4	55	50	46	43	54	49	45	42	48	44	42		46	43	41		45	43	41	40
5	51	45	41	38	50	45	41	38	44	40	37		42	39	37		41	39	37	36
6	48	41	37	34	47	41	37	34	40	36	34		39	36	33		38	35	33	32
7	45	38	34	31	44	38	33	30	37	33	30		36	33	30		35	32	30	29
8	42	35	31	28	41	35	30	28	34	30	27		33	30	27		33	29	27	26
9	39	32	28	25	38	32	28	25	31	27	25		31	27	25		30	27	25	24
10	37	30	26	23	36	29	25	23	29	25	23		28	25	23		28	25	22	22

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.8	3.3	2.0
10°-20°	38.4	12.9	7.8
20°-30°	77.7	26.1	15.7
30°-40°	104.1	35.0	21.0
40°-50°	51.4	17.3	10.4
50°-60°	15.2	5.1	3.1
60°-70°	0.7	0.2	0.1
70°-80°	0.3	0.1	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°	125.9	42.3	25.4
0°-40°	230.0	77.3	46.5
0°-60°	296.5	99.6	59.9
0°-90°	297.6	100.0	60.1
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°	297.6	100.0	60.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	94	
5°	99	10
15°	134	38
25°	162	78
35°	174	104
45°	62	51
55°	17	15
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	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	94.5
2.5°	95.8
5°	98.7
7.5°	103.5
10°	110.0
12.5°	119.8
15°	133.7
17.5°	149.1
20°	149.1
22.5°	164.4
25°	162.2
27.5°	169.3
30°	195.0
32.5°	193.1
35°	174.5
37.5°	146.8
40°	114.7
42.5°	85.0
45°	62.4
47.5°	47.0
50°	35.6
52.5°	26.2
55°	17.3
57.5°	6.9
60°	1.5
62.5°	0.8
65°	0.6
67.5°	0.5
70°	0.4
72.5°	0.3
75°	0.3
77.5°	0.2
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)