

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: H36048

Luminaire Tested: **H5ICAT 5020SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36048
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5ICAT 5020SC
Description: HALO 5" DIA RECESSED DOWNLIGHT
SPECULAR CLEAR REFLECTOR
LOW SOCKET SETTING
Light Source: 50PAR30/FL/H 50 WATTS 670 LUMENS
PAR30 HALOGEN FLOOD
Ballast/Driver: -

Summary

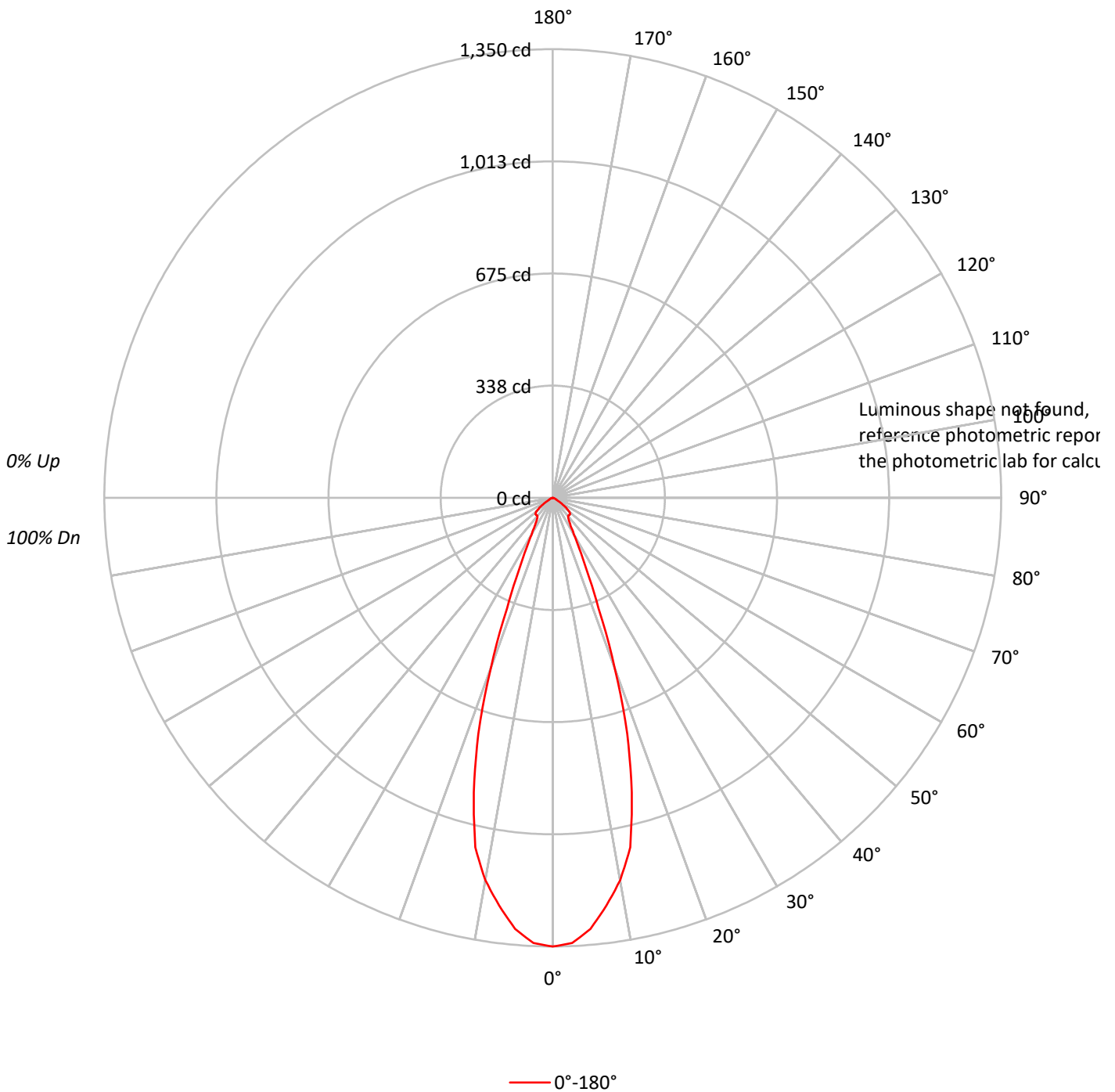
Lumens per Lamp: 670 (1 lamp)
Luminaire Lumens: 650.7 lumens
Efficiency: 97.1%
Efficacy: 13.0 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.56
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{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





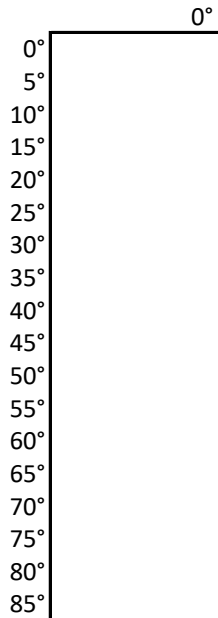
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	116	116	116	116	113	113	113	113	108	108	108		103	103	103		99	99	99	97
1	110	108	105	103	108	106	103	101	102	100	98		98	97	95		95	94	93	91
2	105	100	96	93	103	99	95	92	95	93	90		93	90	88		90	88	86	85
3	100	94	89	85	98	92	88	85	90	86	83		88	85	82		85	83	81	79
4	95	88	83	79	93	87	82	78	85	81	78		83	79	77		81	78	76	74
5	91	83	78	74	89	82	77	73	80	76	73		79	75	72		77	74	71	70
6	87	79	73	69	85	78	73	69	76	72	68		75	71	68		74	70	68	66
7	83	75	69	65	82	74	69	65	73	68	65		72	68	64		71	67	64	63
8	80	71	66	62	79	71	65	62	70	65	62		69	64	61		68	64	61	60
9	77	68	63	59	76	67	62	59	67	62	59		66	61	58		65	61	58	57
10	74	65	60	56	73	65	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°	119.8	18.4	17.9
10°-20°	245.7	37.8	36.7
20°-30°	123.2	18.9	18.4
30°-40°	56.4	8.7	8.4
40°-50°	54.7	8.4	8.2
50°-60°	36.6	5.6	5.5
60°-70°	11.0	1.7	1.6
70°-80°	3.3	0.5	0.5
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°	488.7	75.1	72.9
0°-40°	545.0	83.8	81.4
0°-60°	636.3	97.8	95.0
0°-90°	650.7	100.0	97.1
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°	650.7	100.0	97.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1302	120
15°	918	246
25°	243	123
35°	86	56
45°	72	55
55°	41	37
65°	11	11
75°	3	3
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°	1350
2.5°	1341
5°	1302
7.5°	1237
10°	1168
12.5°	1077
15°	918
17.5°	745
20°	546
22.5°	360
25°	243
27.5°	172
30°	128
32.5°	101
35°	86
37.5°	76
40°	72
42.5°	71
45°	72
47.5°	71
50°	65
52.5°	54
55°	41
57.5°	28
60°	19
62.5°	13
65°	11
67.5°	8
70°	6
72.5°	4
75°	3
77.5°	2
80°	1
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)