

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: H36053

Luminaire Tested: **H5ICAT 5020SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36053
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
HIGH SOCKET SETTING
Light Source: 50R30FL 50 WATTS 525 LUMENS
R30 FLOOD
Ballast/Driver: -

Summary

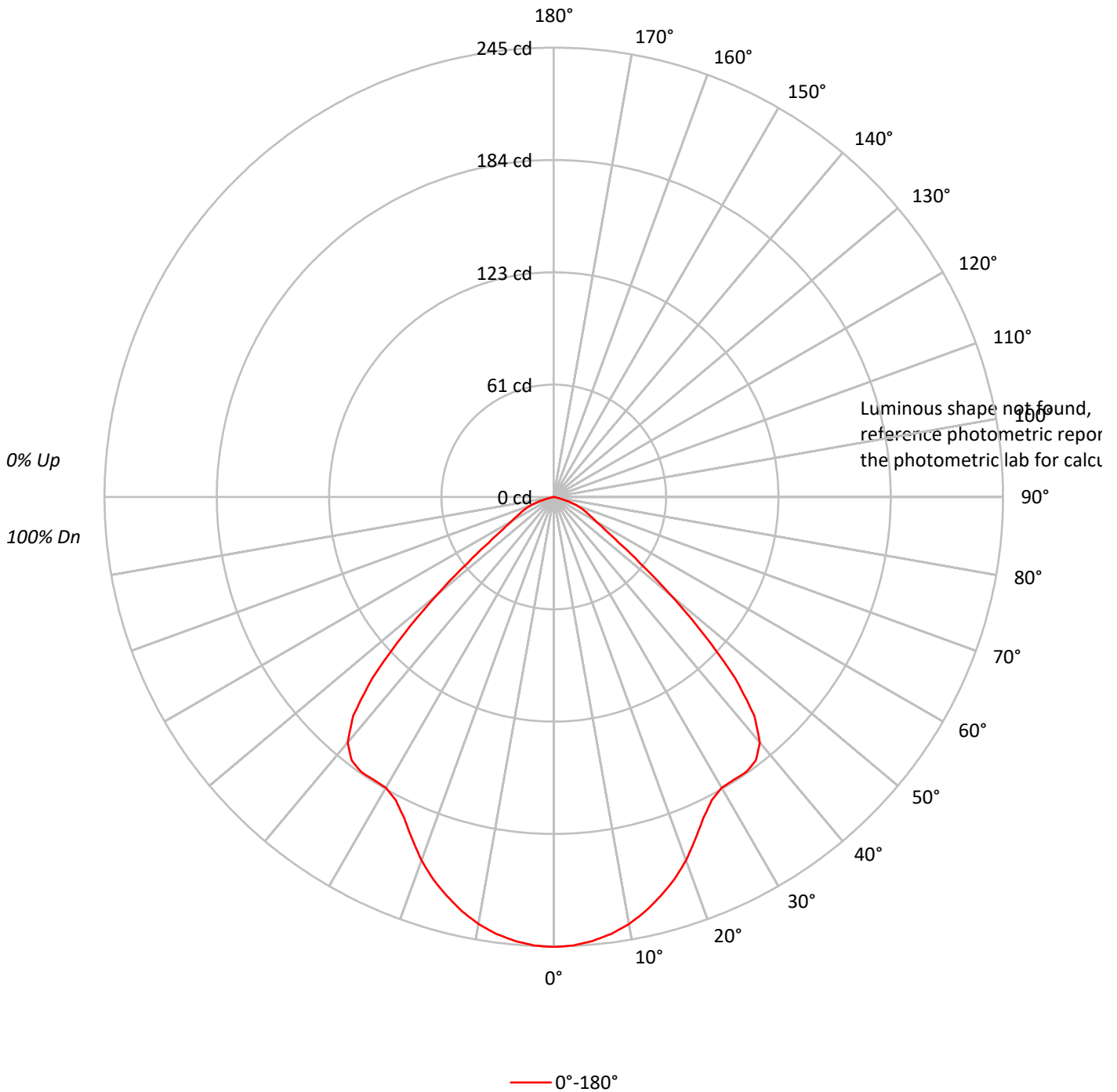
Lumens per Lamp: 525 (1 lamp)
Luminaire Lumens: 461.2 lumens
Efficiency: 87.9%
Efficacy: 9.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.32
Luminous Opening: (L: 0' x W: -0.38' x H: 0'
CIE Type: Direct

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



TEST NUMBER: H36053
CATALOG NUMBER: H5ICAT 5020SC

Luminous Intensity Polar Plot





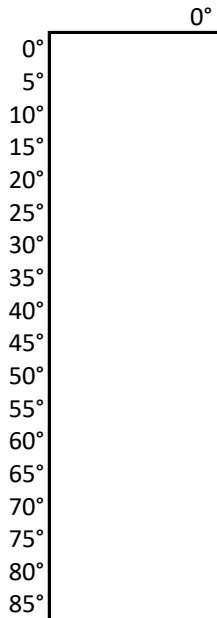
TEST NUMBER: H36053

CATALOG NUMBER: H5ICAT 5020SC

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	105	105	105	105	102	102	102	102	98	98	98		93	93	93		90	90	90	88
1	98	95	92	90	96	93	90	88	89	87	85		86	84	83		83	82	80	79
2	91	85	81	77	89	84	80	76	81	77	74		78	75	73		76	73	71	69
3	85	77	71	67	83	76	70	66	73	69	65		71	67	64		69	66	63	61
4	78	70	63	58	77	69	63	58	67	61	57		65	60	57		63	59	56	54
5	73	63	57	52	71	62	56	51	61	55	51		59	54	50		58	53	50	48
6	68	58	51	46	66	57	51	46	55	50	46		54	49	45		53	48	45	43
7	63	53	46	41	62	52	46	41	51	45	41		50	45	41		49	44	40	39
8	59	49	42	37	58	48	42	37	47	41	37		46	41	37		45	40	37	35
9	55	45	38	34	54	44	38	34	43	38	34		43	37	34		42	37	33	32
10	52	42	35	31	51	41	35	31	40	35	31		40	34	31		39	34	31	29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H36053

CATALOG NUMBER: H5ICAT 5020SC

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.0	5.0	4.4
10°-20°	63.3	13.7	12.1
20°-30°	89.7	19.4	17.1
30°-40°	113.9	24.7	21.7
40°-50°	103.9	22.5	19.8
50°-60°	42.1	9.1	8.0
60°-70°	19.3	4.2	3.7
70°-80°	6.0	1.3	1.1
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°	176.0	38.2	33.5
0°-40°	289.9	62.9	55.2
0°-60°	435.9	94.5	83.0
0°-90°	461.2	100.0	87.9
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°	461.2	100.0	87.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	245	
5°	243	23
15°	225	63
25°	193	90
35°	183	114
45°	140	104
55°	43	42
65°	19	19
75°	5	6
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	



TEST NUMBER: H36053

CATALOG NUMBER: H5ICAT 5020SC

CANDELA DISTRIBUTION (FULL):

0°	
0°	245.4
2.5°	244.8
5°	243.0
7.5°	240.3
10°	236.4
12.5°	231.3
15°	225.2
17.5°	218.6
20°	210.8
22.5°	201.8
25°	193.0
27.5°	186.5
30°	183.1
32.5°	182.8
35°	183.1
37.5°	181.0
40°	174.8
42.5°	161.8
45°	139.9
47.5°	111.3
50°	83.1
52.5°	59.3
55°	42.9
57.5°	32.8
60°	26.7
62.5°	22.5
65°	19.2
67.5°	16.4
70°	13.0
72.5°	9.3
75°	5.1
77.5°	1.7
80°	0.3
82.5°	0.1
85°	0.0
87.5°	0.0
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



TEST NUMBER: H36053

CATALOG NUMBER: H5ICAT 5020SC

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)