

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: H36036

Luminaire Tested: **H5T 5020RG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36036
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5T 5020RG
Description: HALO 5" DIA RECESSED DOWNLIGHT
RESIDENTIAL GOLD REFLECTOR
HIGH SOCKET SETTING
Light Source: 75R30FL 75 WATTS 900 LUMENS
R30 FLOOD
Ballast/Driver: -

Summary

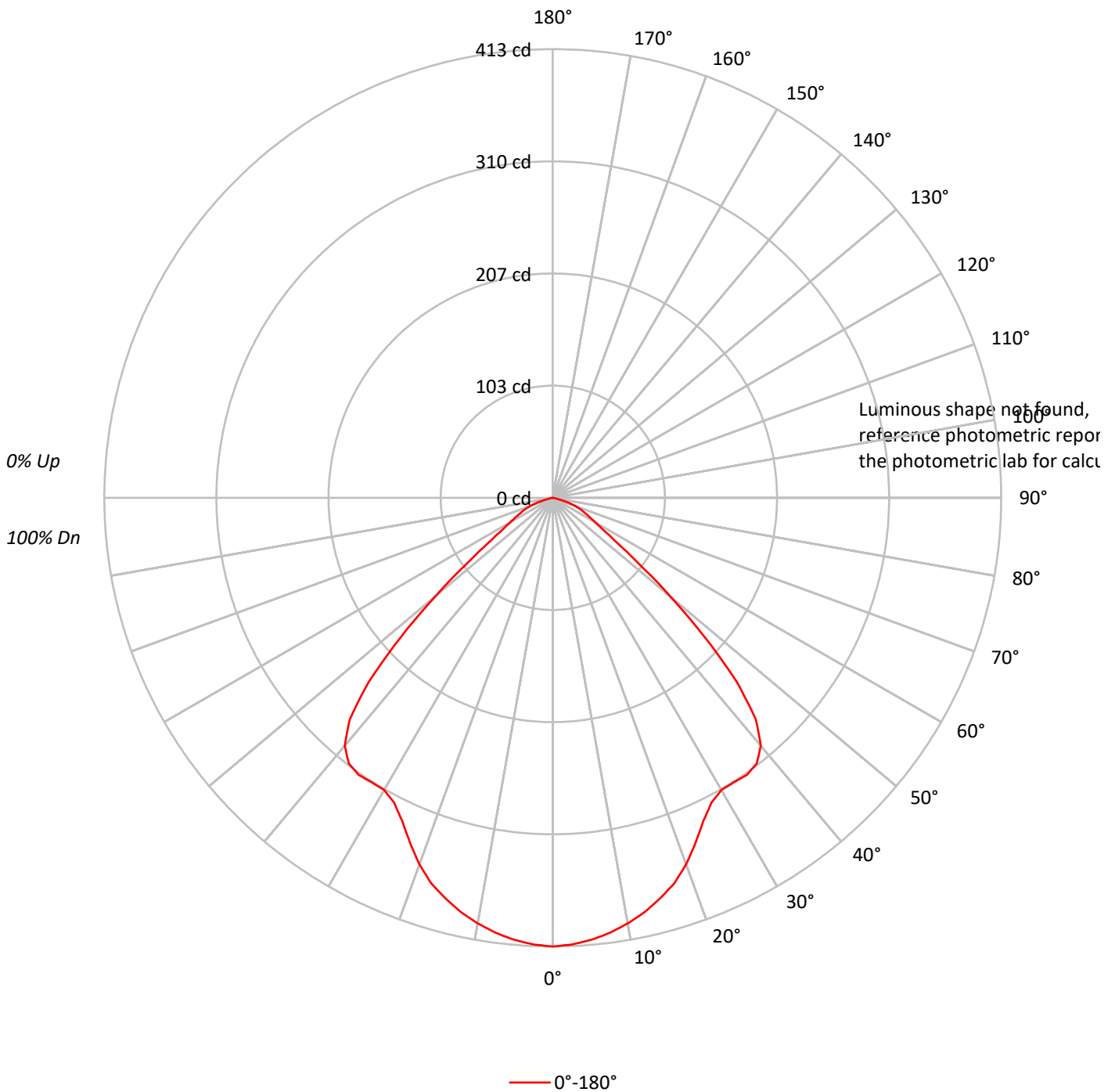
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 783.3 lumens
Efficiency: 87.0%
Efficacy: 10.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.33
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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: H36036
CATALOG NUMBER: H5T 5020RG

Luminous Intensity Polar Plot



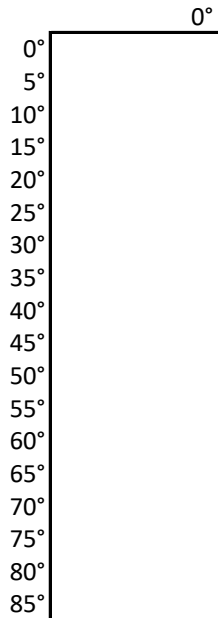


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	104	104	104	104	101	101	101	101	97	97	97		93	93	93		89	89	89	87
1	97	94	91	89	95	92	90	87	89	86	85		85	84	82		82	81	80	78
2	90	85	80	76	88	83	79	75	80	77	74		77	75	72		75	73	70	69
3	84	76	71	66	82	75	70	66	73	68	64		70	67	63		68	65	62	61
4	78	69	63	58	76	68	62	58	66	61	57		64	60	56		62	59	55	54
5	72	63	56	51	71	62	56	51	60	55	50		59	54	50		57	53	49	48
6	67	57	50	46	66	56	50	45	55	49	45		54	49	45		52	48	44	43
7	63	52	46	41	61	52	45	41	50	45	41		49	44	40		48	44	40	38
8	59	48	42	37	57	48	41	37	46	41	37		45	40	36		44	40	36	35
9	55	44	38	34	54	44	38	34	43	37	33		42	37	33		41	37	33	32
10	52	41	35	31	51	41	35	31	40	34	31		39	34	30		38	34	30	29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.6	4.9	4.3
10°-20°	107.4	13.7	11.9
20°-30°	152.4	19.5	16.9
30°-40°	193.8	24.7	21.5
40°-50°	177.4	22.6	19.7
50°-60°	71.1	9.1	7.9
60°-70°	32.5	4.2	3.6
70°-80°	10.0	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°	298.4	38.1	33.2
0°-40°	492.2	62.8	54.7
0°-60°	740.7	94.6	82.3
0°-90°	783.3	100.0	87.0
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°	783.3	100.0	87.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	413	
5°	408	39
15°	382	107
25°	328	152
35°	312	194
45°	239	177
55°	72	71
65°	32	33
75°	9	10
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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CATALOG NUMBER: H5T 5020RG

CANDELA DISTRIBUTION (FULL):

0°	
0°	413.0
2.5°	411.5
5°	408.4
7.5°	403.7
10°	397.8
12.5°	390.7
15°	381.8
17.5°	372.0
20°	359.0
22.5°	343.5
25°	328.0
27.5°	316.4
30°	310.6
32.5°	310.4
35°	311.5
37.5°	308.4
40°	298.0
42.5°	276.6
45°	239.4
47.5°	189.7
50°	141.0
52.5°	100.1
55°	72.1
57.5°	55.3
60°	45.2
62.5°	38.0
65°	32.5
67.5°	27.6
70°	21.9
72.5°	15.6
75°	8.7
77.5°	2.6
80°	0.3
82.5°	0.2
85°	0.1
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



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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)