

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: H36051

Luminaire Tested: **H5T 5020P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H36051  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H5T 5020P  
Description: HALO 5" DIA RECESSED DOWNLIGHT  
WHITE REFLECTOR  
LOW SOCKET SETTING  
Light Source: 75PAR30/FL/H 75 WATTS 1100 LUMENS  
PAR30 HALOGEN FLOOD  
Ballast/Driver: -

**Summary**

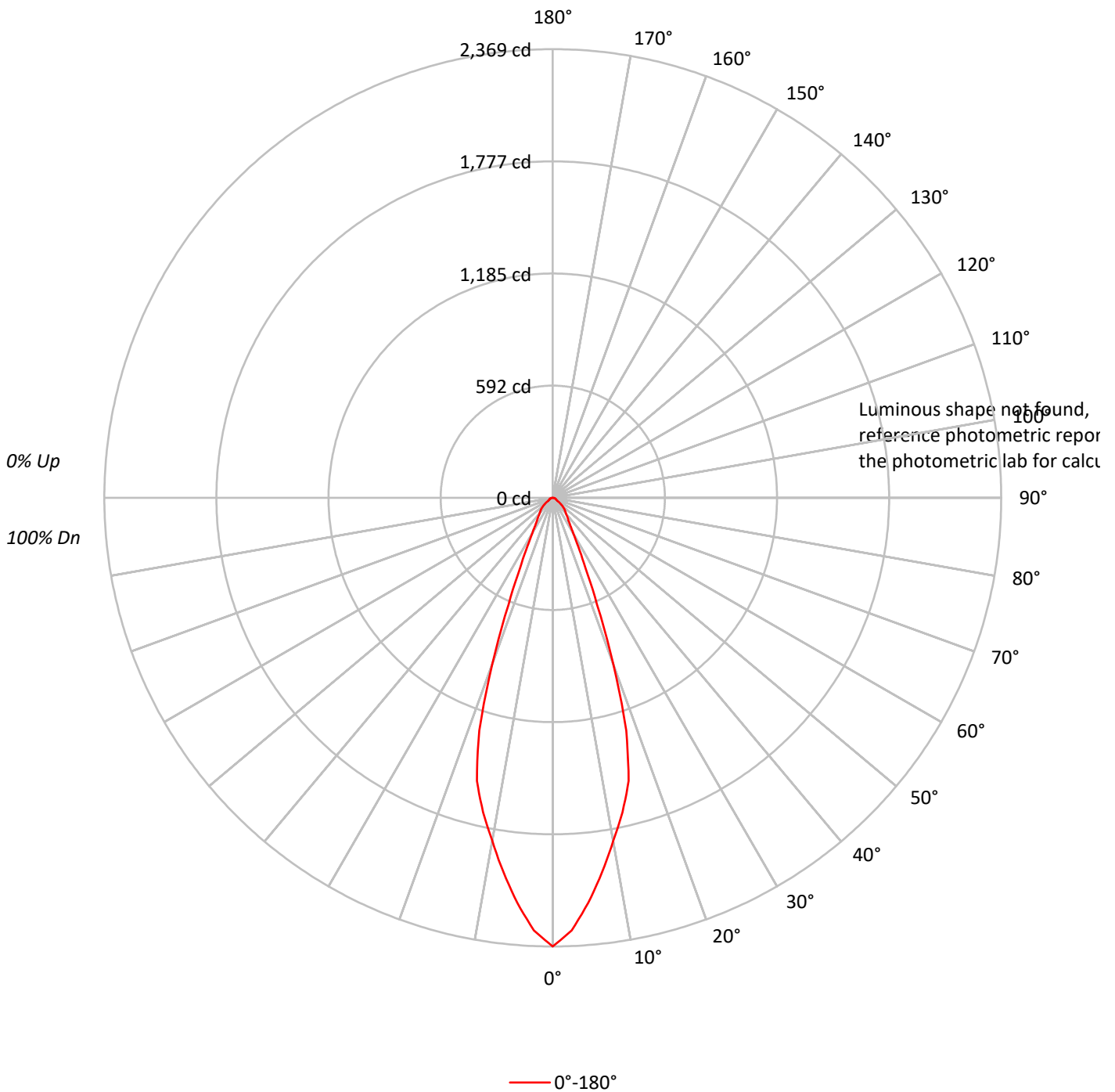
Lumens per Lamp: 1100 (1 lamp)  
Luminaire Lumens: 1042.6 lumens  
Efficiency: 94.8%  
Efficacy: 13.9 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.56  
Luminous Opening: (L: 0 ' x W: 0.38 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



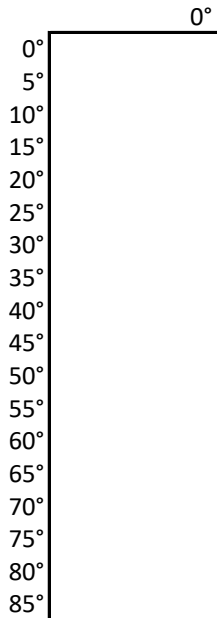


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	113	113	113	113	110	110	110	110	105	105	105	101	101	101	97	97	97	95
1	108	105	103	100	105	103	101	99	99	97	96	95	94	93	92	91	90	89
2	102	98	94	91	100	96	93	90	93	90	88	90	88	86	88	86	84	83
3	98	92	87	84	96	90	86	83	88	84	82	86	83	80	84	81	79	78
4	93	86	81	78	92	85	81	77	83	79	76	81	78	75	80	77	75	73
5	89	82	77	73	88	81	76	72	79	75	72	78	74	71	76	73	70	69
6	85	78	72	68	84	77	72	68	75	71	68	74	70	67	73	70	67	66
7	82	74	69	65	81	73	68	65	72	68	64	71	67	64	70	66	64	62
8	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	63	61	60
9	76	67	62	59	75	67	62	59	66	62	59	65	61	58	65	61	58	57
10	73	65	60	56	72	64	59	56	63	59	56	63	59	56	62	58	56	55

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	195.4	18.7	17.8
10°-20°	407.2	39.1	37.0
20°-30°	208.1	20.0	18.9
30°-40°	93.1	8.9	8.5
40°-50°	67.0	6.4	6.1
50°-60°	36.1	3.5	3.3
60°-70°	18.3	1.8	1.7
70°-80°	12.9	1.2	1.2
80°-90°	4.5	0.4	0.4
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°	810.7	77.8	73.7
0°-40°	903.8	86.7	82.2
0°-60°	1006.9	96.6	91.5
0°-90°	1042.6	100.0	94.8
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°	1042.6	100.0	94.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2369	
5°	2147	195
15°	1548	407
25°	405	208
35°	143	93
45°	88	67
55°	39	36
65°	18	18
75°	12	13
85°	4	4
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°	2369
2.5°	2286
5°	2147
7.5°	1995
10°	1839
12.5°	1700
15°	1548
17.5°	1289
20°	933
22.5°	610
25°	405
27.5°	290
30°	215
32.5°	172
35°	143
37.5°	124
40°	109
42.5°	98
45°	88
47.5°	76
50°	64
52.5°	51
55°	39
57.5°	29
60°	23
62.5°	20
65°	18
67.5°	17
70°	15
72.5°	14
75°	12
77.5°	11
80°	9
82.5°	7
85°	4
87.5°	1
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)