

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: H36049

Luminaire Tested: **H5T 5020SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36049
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5T 5020SC
Description: HALO 5" DIA RECESSED DOWNLIGHT
SPECULAR CLEAR REFLECTOR
LOW SOCKET SETTING
Light Source: 75PAR30/FL/H 75 WATTS 1100 LUMENS
PAR30 HALOGEN FLOOD
Ballast/Driver: -

Summary

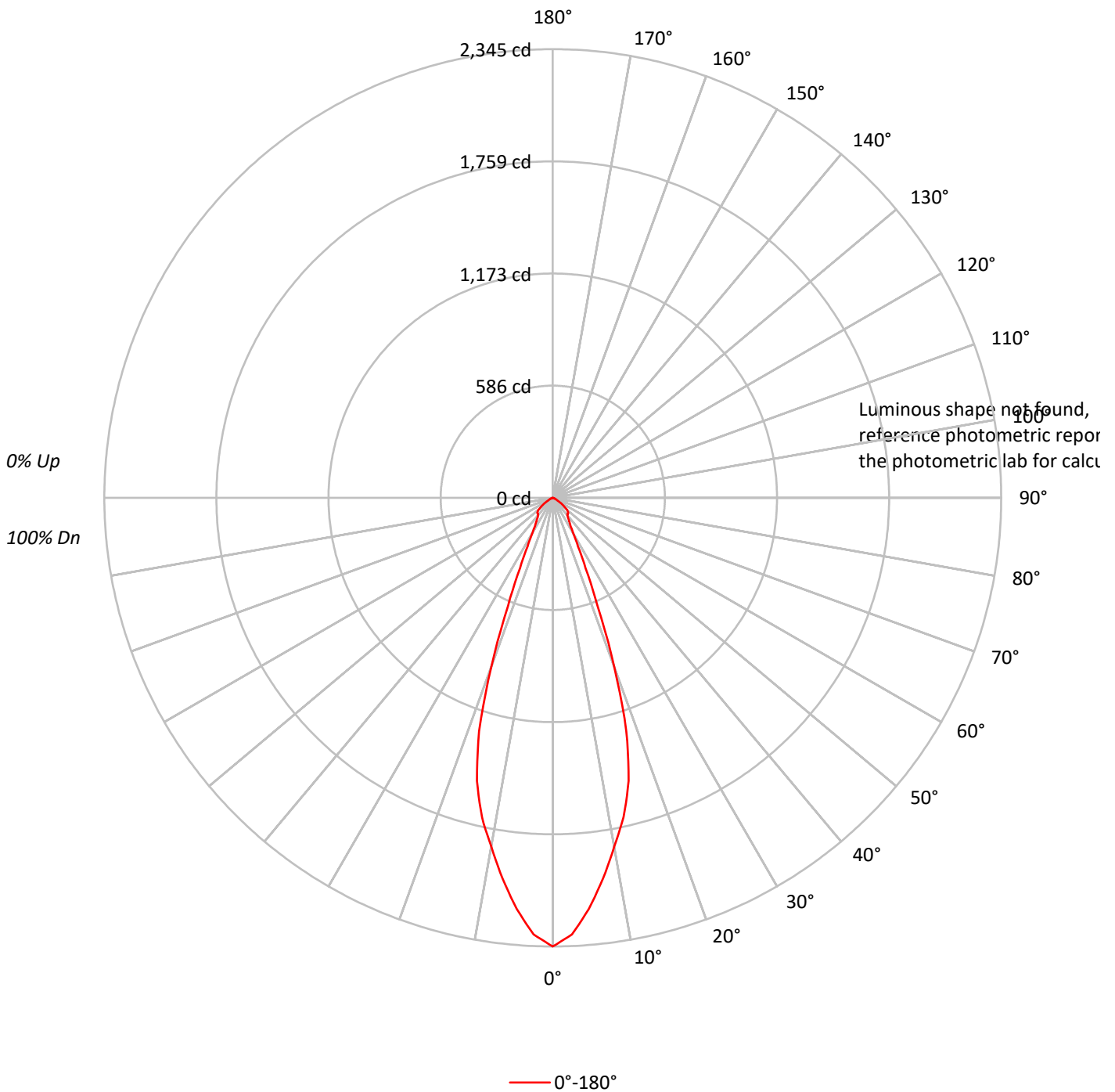
Lumens per Lamp: 1100 (1 lamp)
Luminaire Lumens: 1069.1 lumens
Efficiency: 97.2%
Efficacy: 14.3 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.56
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
Input Voltage (V): NR
Input Current (A_{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



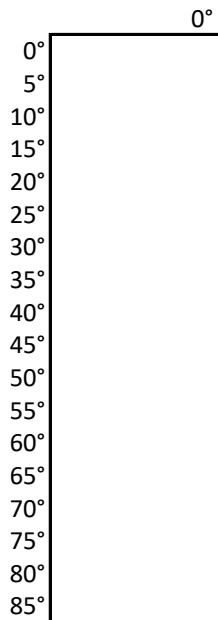


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	104	102	102	100	99	98	97	96	95	94	93	91
2	105	101	97	93	103	99	95	92	96	93	90	93	91	88	90	88	87	85
3	100	94	89	86	98	93	88	85	90	87	84	88	85	82	86	83	81	80
4	95	88	83	79	94	87	83	79	85	81	78	83	80	77	82	79	76	75
5	91	83	78	74	90	83	77	74	81	76	73	79	75	72	78	74	72	70
6	87	79	73	70	86	78	73	69	77	72	69	75	71	68	74	71	68	67
7	83	75	70	66	82	74	69	66	73	69	65	72	68	65	71	67	65	63
8	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60
9	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57
10	74	65	60	57	73	65	60	57	64	60	56	63	59	56	63	59	56	55

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	196.3	18.4	17.8
10°-20°	406.5	38.0	37.0
20°-30°	207.8	19.4	18.9
30°-40°	95.7	9.0	8.7
40°-50°	85.8	8.0	7.8
50°-60°	54.8	5.1	5.0
60°-70°	17.5	1.6	1.6
70°-80°	4.6	0.4	0.4
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°	810.6	75.8	73.7
0°-40°	906.3	84.8	82.4
0°-60°	1046.9	97.9	95.2
0°-90°	1069.1	100.0	97.2
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°	1069.1	100.0	97.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	2345	
5°	2158	196
15°	1532	407
25°	404	208
35°	148	96
45°	114	86
55°	61	55
65°	17	18
75°	4	5
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°	2345
2.5°	2284
5°	2158
7.5°	2008
10°	1851
12.5°	1710
15°	1532
17.5°	1280
20°	940
22.5°	611
25°	404
27.5°	286
30°	213
32.5°	172
35°	148
37.5°	130
40°	120
42.5°	114
45°	114
47.5°	108
50°	96
52.5°	79
55°	61
57.5°	44
60°	30
62.5°	21
65°	17
67.5°	13
70°	10
72.5°	6
75°	4
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)