

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: H36035

Luminaire Tested: **H5T 5020SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36035
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
HIGH SOCKET SETTING
Light Source: 75R30FL 75 WATTS 900 LUMENS
R30 FLOOD
Ballast/Driver: -

Summary

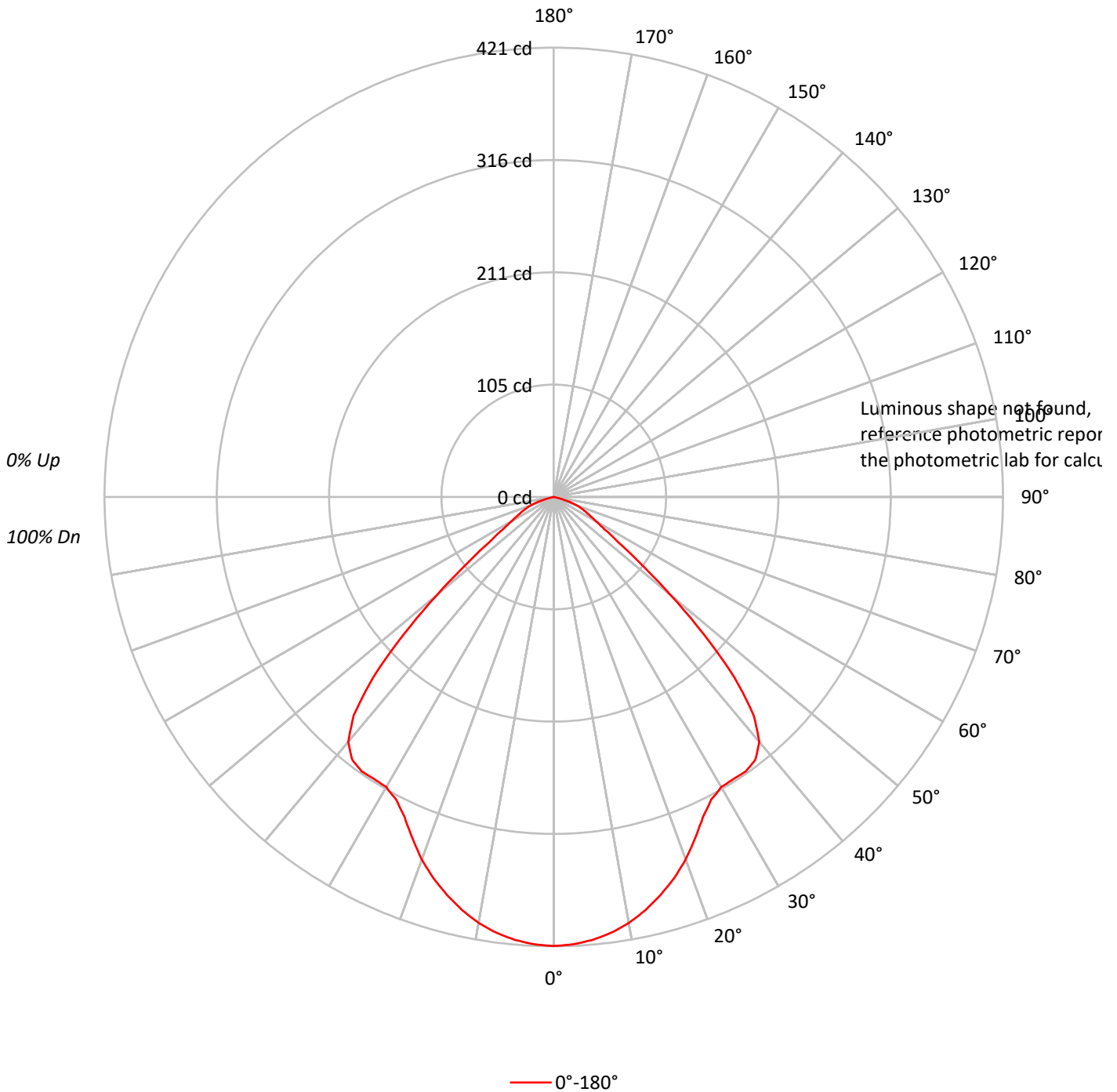
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 790.7 lumens
Efficiency: 87.9%
Efficacy: 10.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.32
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 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



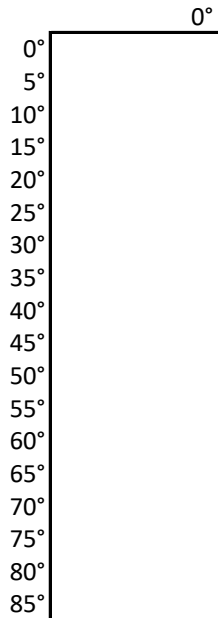


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	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	86	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.4	5.0	4.4
10°-20°	108.6	13.7	12.1
20°-30°	153.7	19.4	17.1
30°-40°	195.3	24.7	21.7
40°-50°	178.2	22.5	19.8
50°-60°	72.2	9.1	8.0
60°-70°	33.0	4.2	3.7
70°-80°	10.2	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°	301.7	38.2	33.5
0°-40°	497.0	62.8	55.2
0°-60°	747.4	94.5	83.0
0°-90°	790.7	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°	790.7	100.0	87.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	421	
5°	417	39
15°	386	109
25°	331	154
35°	314	195
45°	240	178
55°	74	72
65°	33	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	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	420.7
2.5°	419.6
5°	416.6
7.5°	411.9
10°	405.3
12.5°	396.5
15°	386.1
17.5°	374.7
20°	361.5
22.5°	346.0
25°	330.9
27.5°	319.7
30°	313.9
32.5°	313.3
35°	313.8
37.5°	310.3
40°	299.6
42.5°	277.3
45°	239.9
47.5°	190.8
50°	142.5
52.5°	101.7
55°	73.6
57.5°	56.3
60°	45.8
62.5°	38.6
65°	33.0
67.5°	28.1
70°	22.3
72.5°	15.9
75°	8.8
77.5°	2.9
80°	0.4
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)