

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: H35158

Luminaire Tested: **H7T-4051P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H35158
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7T-4051P
Description: HALO 7" RECESSED DOWNLIGHT
SELF FLANGED WHITE REFLECTOR
SOCKET POSITION FIXED
Light Source: 150A21 150 WATTS 2850 LUMENS
A21 INSIDE FROSTED
Ballast/Driver: -

Summary

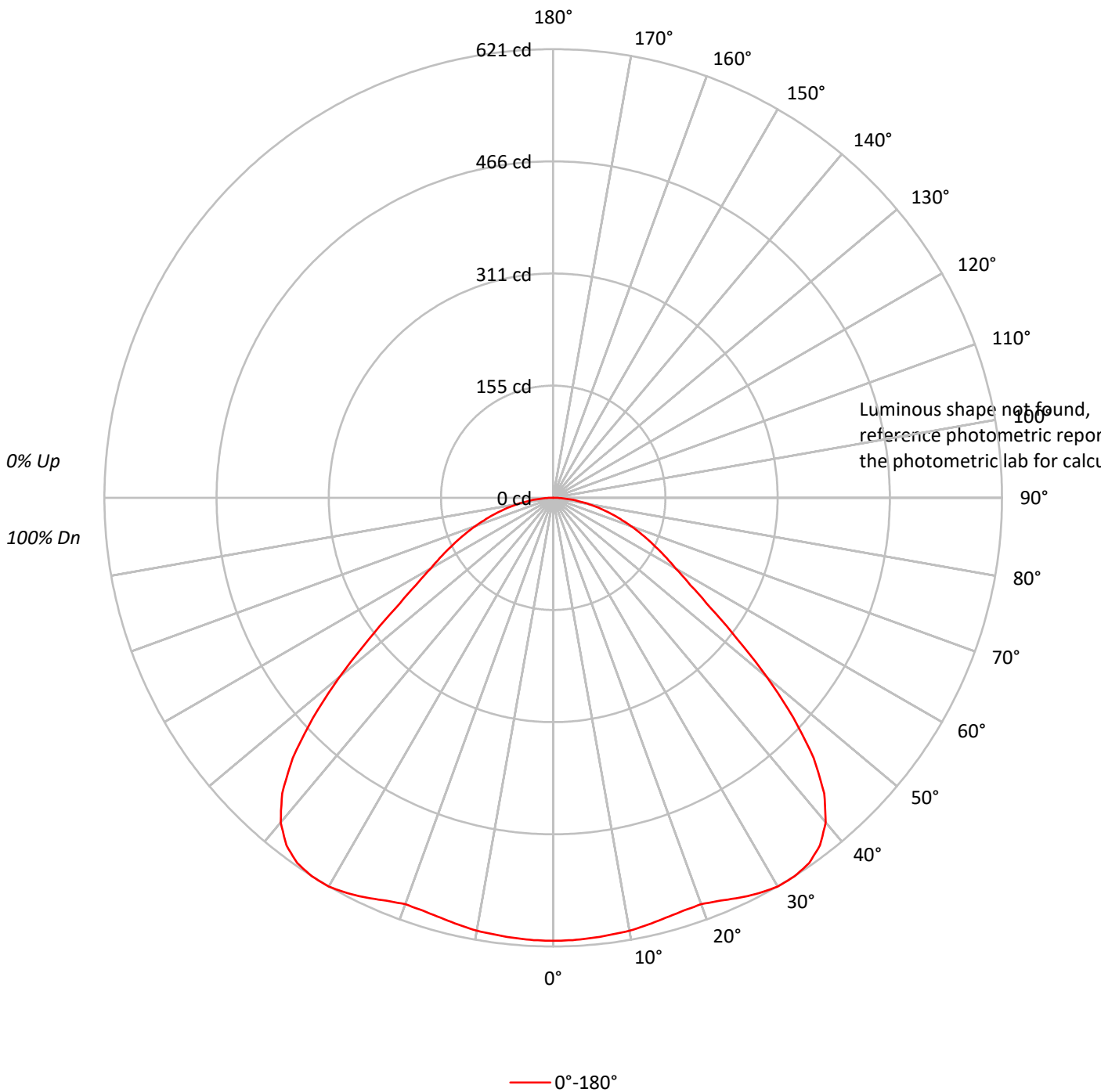
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 1790.1 lumens
Efficiency: 62.8%
Efficacy: 11.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.49
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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



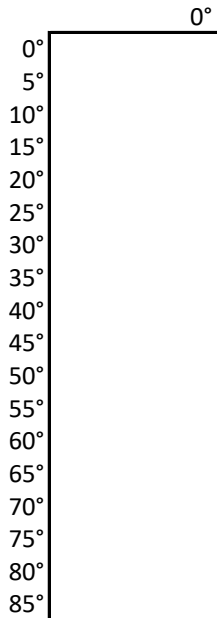


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	69	66	64	61	67	65	62	60	62	60	58		60	58	57		57	56	55	54
2	63	58	54	51	61	57	53	50	55	52	49		53	50	48		51	49	47	46
3	58	52	47	43	56	51	46	43	49	45	42		47	44	41		45	43	40	39
4	53	46	41	37	52	45	40	36	44	39	36		42	38	35		41	38	35	34
5	49	41	36	32	48	40	35	32	39	35	31		38	34	31		37	33	31	29
6	45	37	32	28	44	37	31	28	35	31	27		34	30	27		33	30	27	26
7	42	34	28	25	41	33	28	25	32	28	24		31	27	24		30	27	24	23
8	39	31	26	22	38	30	25	22	29	25	22		29	25	22		28	24	21	20
9	36	28	23	20	36	28	23	20	27	23	20		26	22	19		26	22	19	18
10	34	26	21	18	33	26	21	18	25	21	18		24	20	18		24	20	18	16

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	58.3	3.3	2.0
10°-20°	170.6	9.5	6.0
20°-30°	282.8	15.8	9.9
30°-40°	384.2	21.5	13.5
40°-50°	385.4	21.5	13.5
50°-60°	245.6	13.7	8.6
60°-70°	151.9	8.5	5.3
70°-80°	85.7	4.8	3.0
80°-90°	25.7	1.4	0.9
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°	511.7	28.6	18.0
0°-40°	895.9	50.0	31.4
0°-60°	1526.9	85.3	53.6
0°-90°	1790.1	100.0	62.8
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°	1790.1	100.0	62.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	613	
5°	612	58
15°	602	171
25°	611	283
35°	617	384
45°	510	385
55°	266	246
65°	153	152
75°	81	86
85°	23	24
90°	0	1
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°	613.1
2.5°	612.8
5°	611.7
7.5°	610.0
10°	608.5
12.5°	605.2
15°	601.8
17.5°	599.1
20°	598.5
22.5°	603.5
25°	610.7
27.5°	617.0
30°	621.3
32.5°	621.2
35°	617.3
37.5°	606.3
40°	586.5
42.5°	555.1
45°	509.6
47.5°	450.7
50°	385.8
52.5°	320.8
55°	265.5
57.5°	225.3
60°	196.0
62.5°	173.0
65°	152.6
67.5°	133.2
70°	114.6
72.5°	97.1
75°	80.6
77.5°	64.8
80°	50.0
82.5°	36.0
85°	22.9
87.5°	10.7
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)