

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: H22132

Luminaire Tested: **H7T-4051PW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22132
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7T-4051PW
Description: HALO 6" DIA RECESSED DOWNLIGHT
PEWTER REFLECTOR CONE
SOCKET ATTACHED TO TRIM
Light Source: 150A21 150 WATTS 2850 LUMENS
A21 INSIDE FROSTED
Ballast/Driver: -

Summary

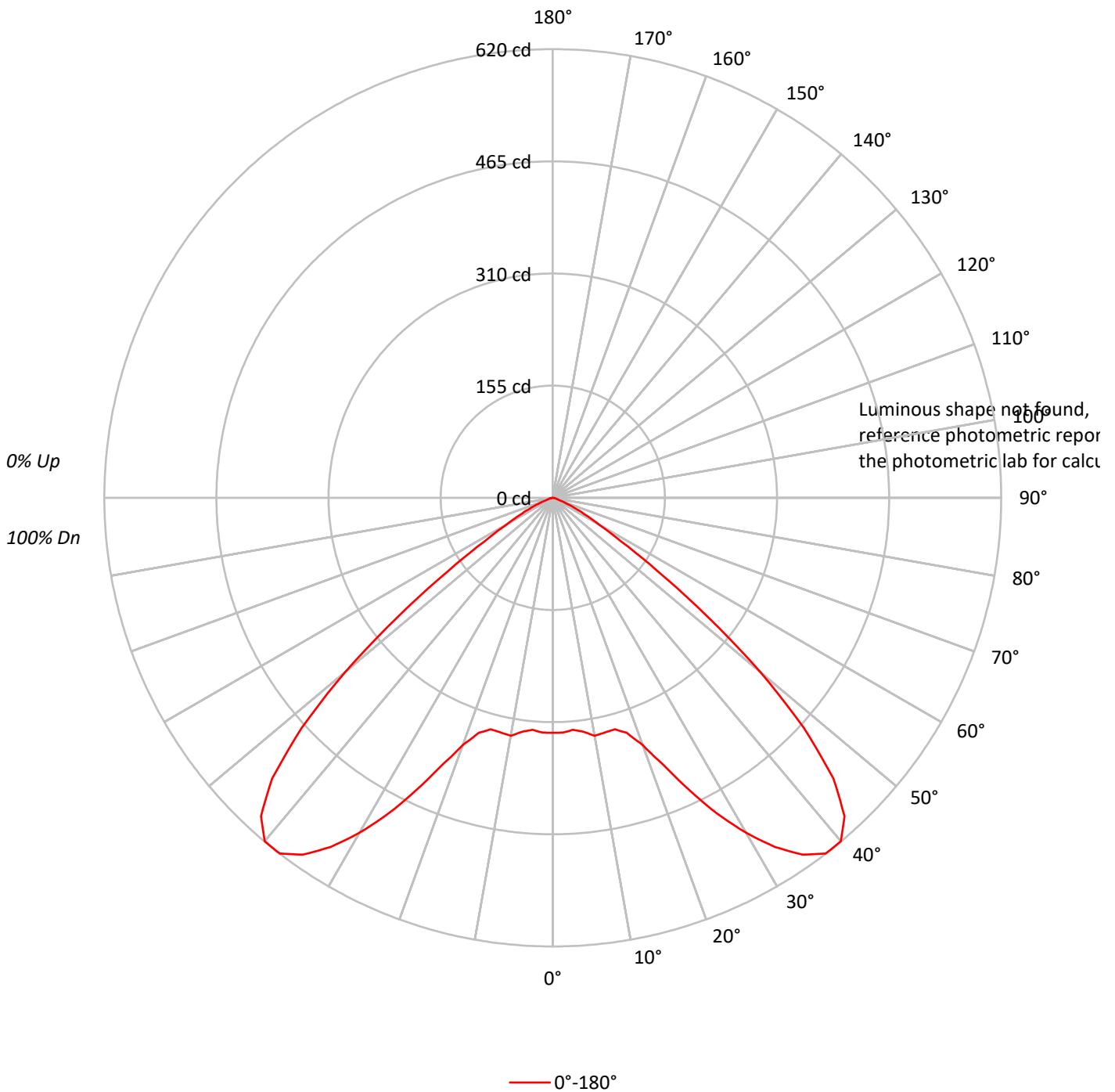
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 1333.5 lumens
Efficiency: 46.8%
Efficacy: 8.9 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.11 / 1.75
Luminous Opening: (L: 0 ' x W: -0.44 ' x H: 0 '
CIE Type: Direct

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



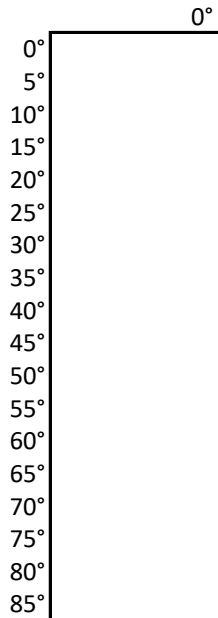


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48	47
1	52	50	49	47	51	49	48	47	47	46	45	46	45	44	44	43	42	42
2	48	45	42	40	47	44	42	40	42	40	39	41	39	38	40	38	37	36
3	44	40	37	34	43	39	36	34	38	35	33	37	35	33	36	34	32	31
4	41	36	32	29	40	35	32	29	34	31	29	33	30	28	32	30	28	27
5	37	32	28	25	37	32	28	25	31	27	25	30	27	25	29	26	24	24
6	35	29	25	22	34	28	25	22	27	24	22	27	24	22	26	23	21	21
7	32	26	22	19	31	26	22	19	25	22	19	24	21	19	24	21	19	18
8	30	23	20	17	29	23	19	17	23	19	17	22	19	17	21	19	17	16
9	27	21	18	15	27	21	17	15	21	17	15	20	17	15	20	17	15	14
10	26	19	16	13	25	19	16	13	19	16	13	18	15	13	18	15	13	12

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.2	2.3	1.1
10°-20°	96.2	7.2	3.4
20°-30°	209.0	15.7	7.3
30°-40°	373.4	28.0	13.1
40°-50°	406.5	30.5	14.3
50°-60°	172.6	12.9	6.1
60°-70°	36.8	2.8	1.3
70°-80°	6.5	0.5	0.2
80°-90°	1.4	0.1	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°	336.3	25.2	11.8
0°-40°	709.7	53.2	24.9
0°-60°	1288.8	96.6	45.2
0°-90°	1333.5	100.0	46.8
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°	1333.5	100.0	46.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	325	
5°	322	31
15°	331	96
25°	445	209
35°	602	373
45°	548	406
55°	176	173
65°	35	37
75°	6	6
85°	1	1
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°	324.8
2.5°	324.7
5°	321.8
7.5°	326.0
10°	333.9
12.5°	332.2
15°	331.2
17.5°	340.4
20°	363.5
22.5°	399.3
25°	445.1
27.5°	491.8
30°	534.6
32.5°	572.0
35°	601.9
37.5°	619.7
40°	619.4
42.5°	597.0
45°	548.4
47.5°	470.6
50°	374.3
52.5°	269.2
55°	176.3
57.5°	112.0
60°	73.4
62.5°	50.9
65°	35.1
67.5°	21.3
70°	11.9
72.5°	7.7
75°	5.5
77.5°	4.0
80°	2.8
82.5°	1.8
85°	1.2
87.5°	0.7
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)