

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: H22157

Luminaire Tested: **H274IC-404C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22157
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H274IC-404C
Description: HALO 6" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR CONE
Light Source: 13WDTT 13 WATTS 860 LUMENS
13MM QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

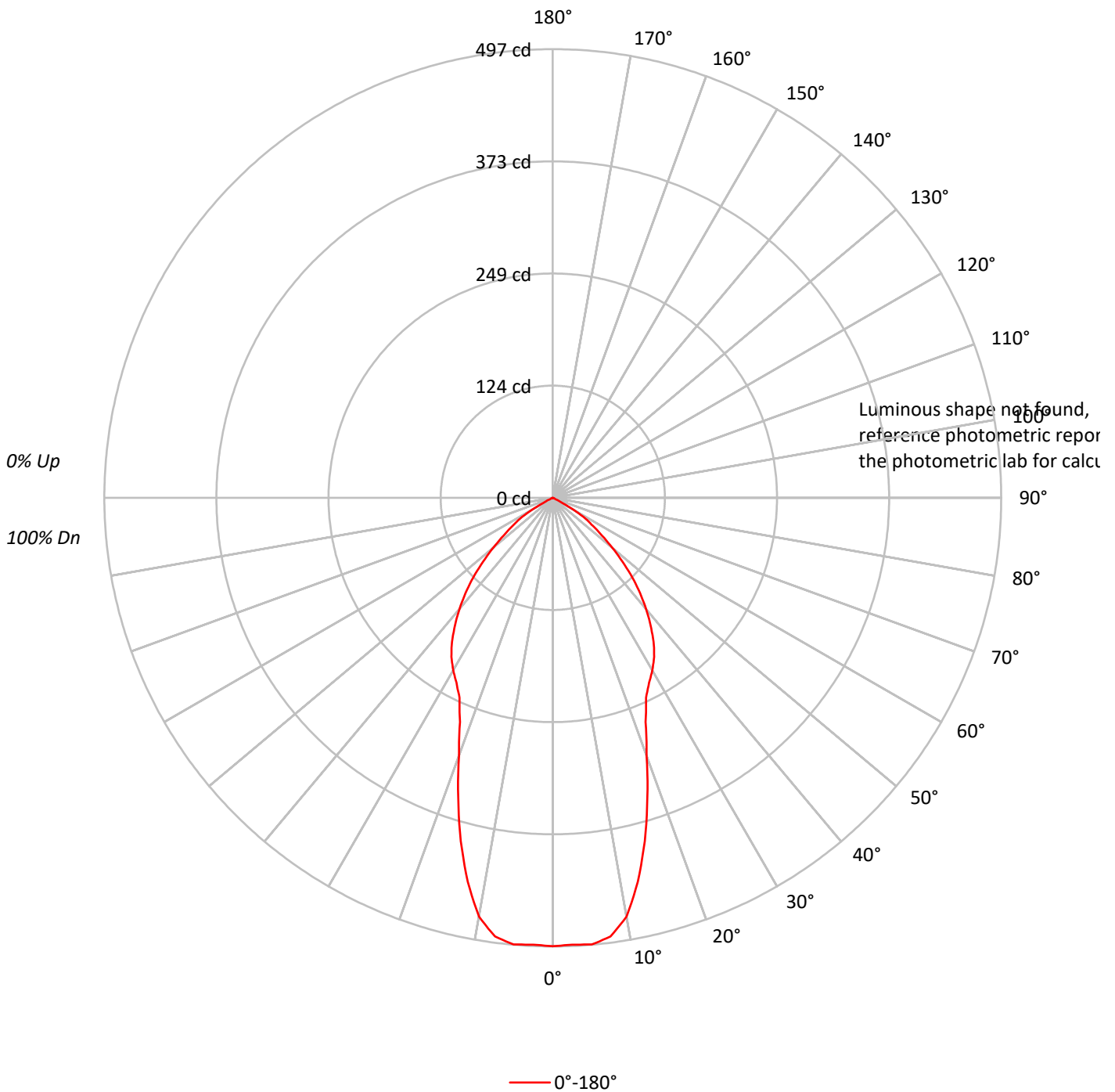
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 542.5 lumens
Efficiency: 63.1%
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.91
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): 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



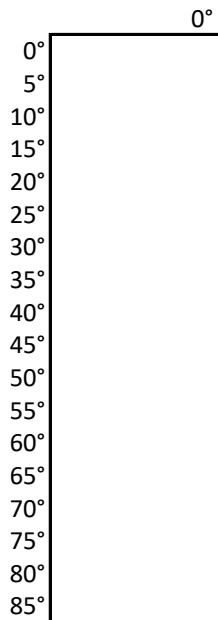


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	71	69	67	66	69	68	66	65	65	64	63		63	62	61		60	60	59	58
2	67	63	60	58	65	62	59	57	60	58	56		58	56	54		56	55	53	52
3	62	58	54	51	61	57	53	51	55	52	50		53	51	49		52	50	48	47
4	58	53	49	46	57	52	48	45	51	47	45		49	46	44		48	46	44	43
5	55	49	44	41	54	48	44	41	47	43	40		46	43	40		45	42	40	39
6	51	45	40	37	50	44	40	37	43	40	37		42	39	37		41	39	36	35
7	48	42	37	34	47	41	37	34	40	36	34		39	36	34		39	36	33	32
8	46	39	34	31	45	38	34	31	37	34	31		37	33	31		36	33	31	30
9	43	36	32	29	42	36	32	29	35	31	29		34	31	29		34	31	28	28
10	41	34	30	27	40	33	29	27	33	29	27		32	29	27		32	29	26	26

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.6	8.6	5.4
10°-20°	108.5	20.0	12.6
20°-30°	115.4	21.3	13.4
30°-40°	120.6	22.2	14.0
40°-50°	95.3	17.6	11.1
50°-60°	49.5	9.1	5.8
60°-70°	6.3	1.2	0.7
70°-80°	0.3	0.0	0.0
80°-90°	0.0	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°	270.5	49.9	31.5
0°-40°	391.1	72.1	45.5
0°-60°	535.9	98.8	62.3
0°-90°	542.5	100.0	63.1
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°	542.5	100.0	63.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	497	
5°	497	47
15°	394	109
25°	244	115
35°	195	121
45°	125	95
55°	54	50
65°	2	6
75°	0	0
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°	496.7
2.5°	495.4
5°	496.6
7.5°	490.2
10°	471.0
12.5°	435.6
15°	393.8
17.5°	348.7
20°	304.1
22.5°	268.7
25°	244.3
27.5°	231.0
30°	220.6
32.5°	209.1
35°	194.8
37.5°	178.0
40°	161.0
42.5°	143.1
45°	124.7
47.5°	104.8
50°	86.1
52.5°	68.8
55°	54.4
57.5°	43.4
60°	26.7
62.5°	9.4
65°	2.2
67.5°	0.7
70°	0.5
72.5°	0.3
75°	0.2
77.5°	0.2
80°	0.1
82.5°	0.1
85°	0.0
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)