

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: H22158

Luminaire Tested: **H274-409W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22158
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H274-409W
Description: HALO 6" DIA RECESSED DOWNLIGHT
WHITE BAFFLE WITH CONE
Light Source: 13WDTT 13 WATTS 860 LUMENS
13MM QUAD TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

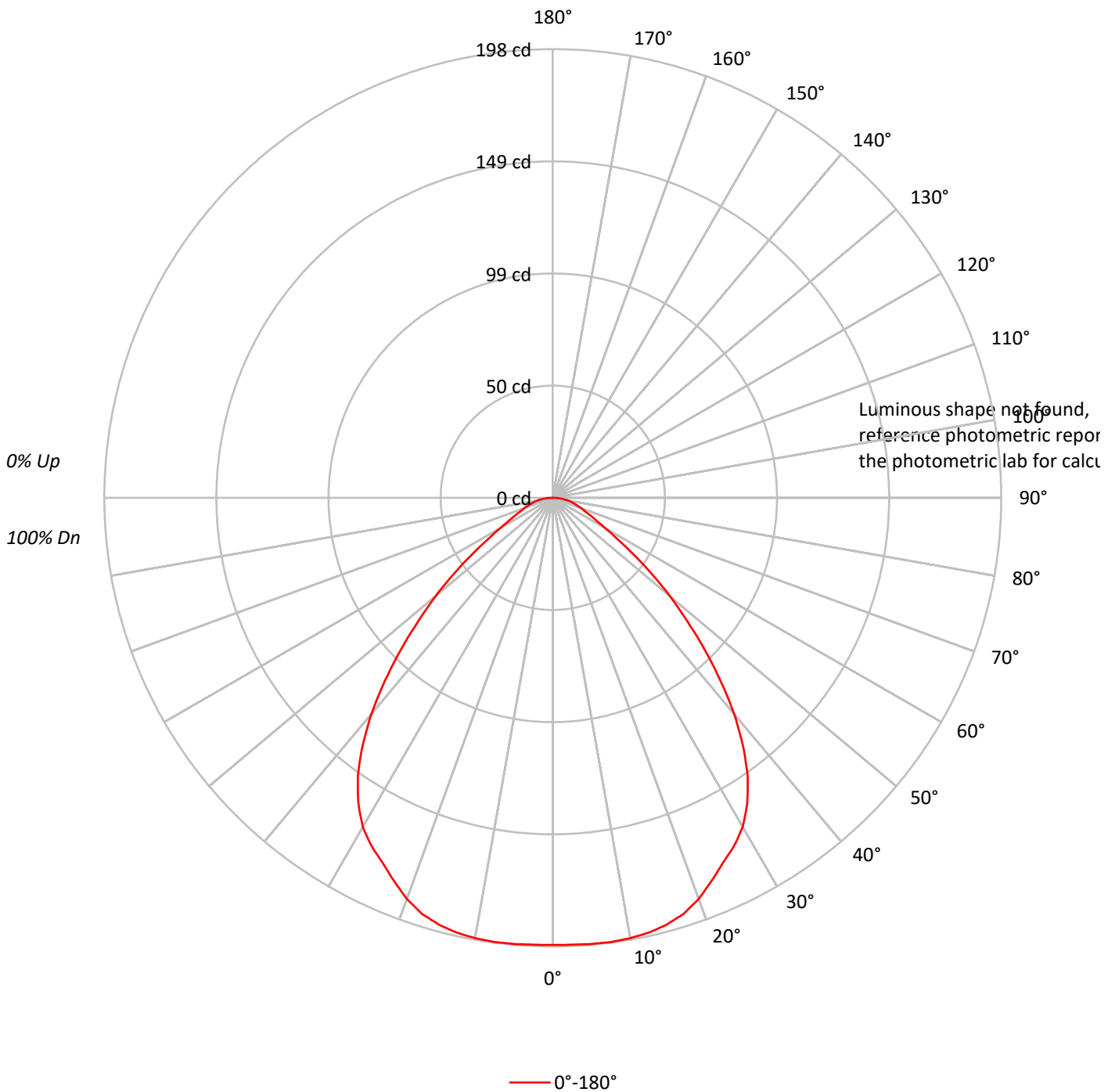
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 394.4 lumens
Efficiency: 45.9%
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.24
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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



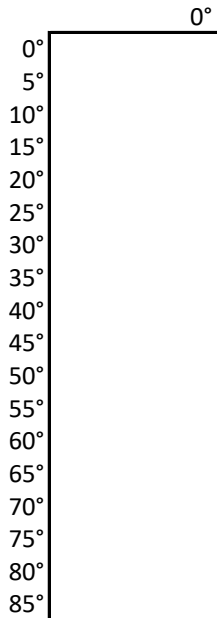


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	55	55	55	55	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	51	49	48	46	50	48	47	45	46	45	44	44	44	43	43	42	41	41
2	47	44	42	39	46	43	41	39	42	40	38	40	39	37	39	38	36	36
3	44	40	37	34	43	39	36	34	38	35	33	37	34	33	35	34	32	31
4	41	36	33	30	40	35	32	30	34	32	29	33	31	29	32	30	29	28
5	38	33	29	26	37	32	29	26	31	28	26	30	28	26	30	27	26	25
6	35	30	26	24	34	29	26	24	29	26	23	28	25	23	27	25	23	22
7	33	27	24	21	32	27	24	21	26	23	21	26	23	21	25	23	21	20
8	31	25	22	19	30	25	22	19	24	21	19	24	21	19	23	21	19	18
9	29	23	20	18	28	23	20	17	23	20	17	22	19	17	22	19	17	16
10	27	22	18	16	27	21	18	16	21	18	16	21	18	16	20	18	16	15

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.9	4.8	2.2
10°-20°	54.9	13.9	6.4
20°-30°	82.1	20.8	9.5
30°-40°	92.8	23.5	10.8
40°-50°	73.2	18.6	8.5
50°-60°	39.8	10.1	4.6
60°-70°	18.6	4.7	2.2
70°-80°	10.4	2.6	1.2
80°-90°	3.7	0.9	0.4
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°	155.9	39.5	18.1
0°-40°	248.6	63.0	28.9
0°-60°	361.6	91.7	42.1
0°-90°	394.4	100.0	45.9
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°	394.4	100.0	45.9

CANDELA DISTRIBUTION:

0°	Flux
0°	197
5°	198
15°	195
25°	178
35°	150
45°	95
55°	44
65°	18
75°	10
85°	3
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	197.3
2.5°	197.4
5°	197.6
7.5°	197.7
10°	197.3
12.5°	196.5
15°	194.9
17.5°	192.4
20°	188.3
22.5°	183.1
25°	177.7
27.5°	173.3
30°	167.7
32.5°	159.8
35°	150.0
37.5°	138.0
40°	124.6
42.5°	109.8
45°	94.8
47.5°	80.4
50°	67.4
52.5°	55.0
55°	43.5
57.5°	33.7
60°	26.7
62.5°	21.8
65°	18.1
67.5°	15.2
70°	13.4
72.5°	11.4
75°	9.7
77.5°	8.3
80°	6.7
82.5°	5.0
85°	3.4
87.5°	2.0
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)