

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: H22071

Luminaire Tested: **H274-400SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22071
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H274-400SC
Description: HALO 6" RECESSED PL DOWNLIGHT
CLEAR SPECULAR REFLECTOR
HIGH SOCKET SETTING
Light Source: 13W/QT4 13 WATTS 860 LUMENS
10mm QUAD TUBE COMPACT FLUORESCENT
GX23 D2 BASE
Ballast/Driver: -

Summary

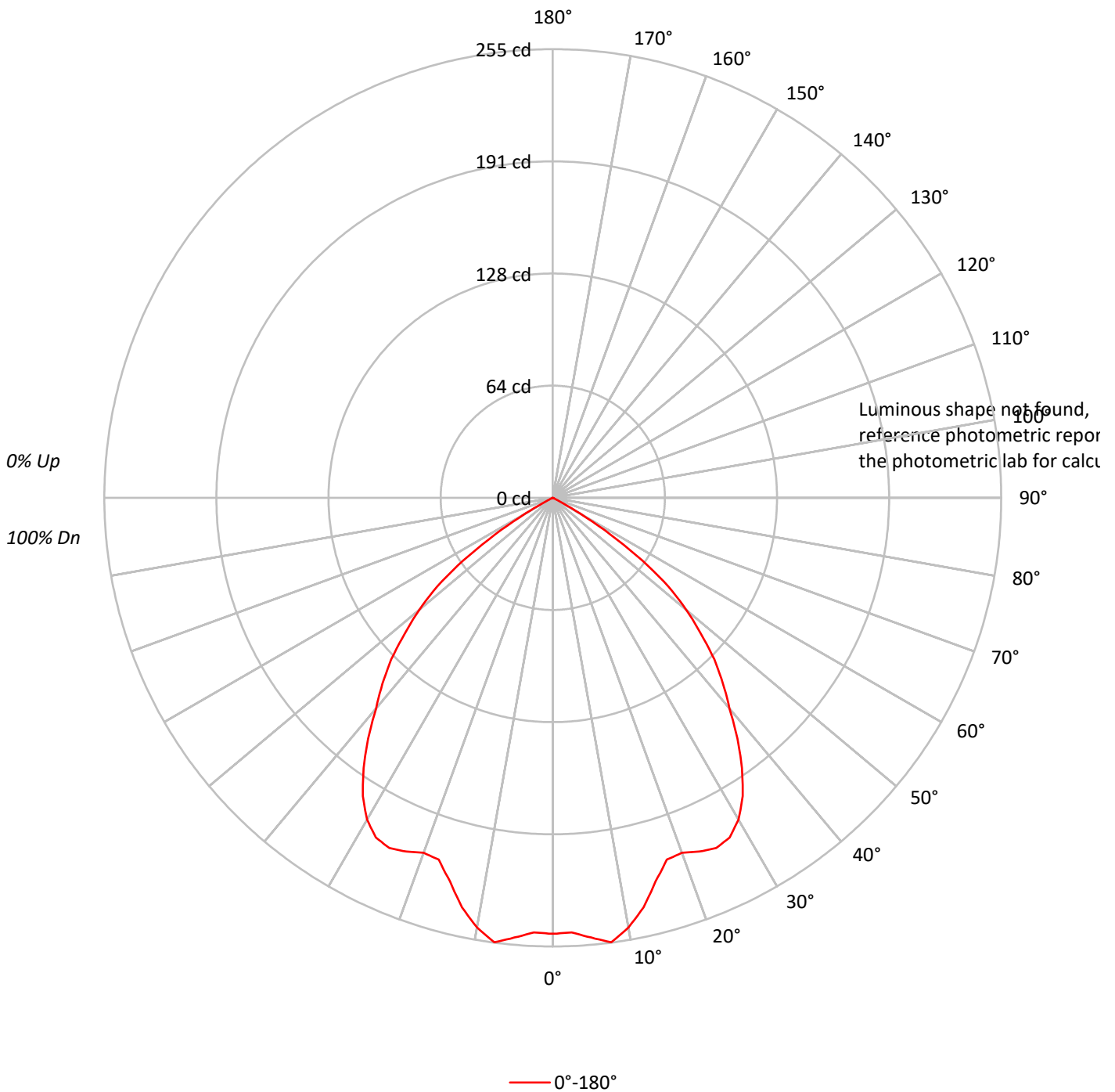
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 461.3 lumens
Efficiency: 53.6%
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.25
Luminous Opening: (L: 0' x W: -0.48' x H: 0'
CIE Type: Direct

Input Watts (W): 18
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



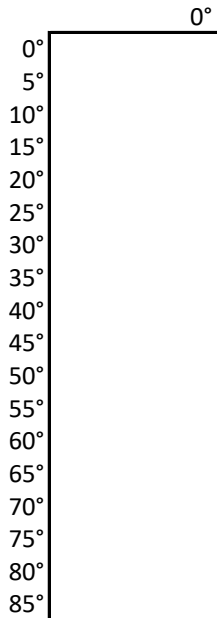


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	64	64	64	64	62	62	62	62	60	60	60	57	57	57	55	55	55	54
1	60	58	57	55	59	57	56	54	55	54	53	53	52	51	51	50	50	49
2	56	53	50	48	55	52	49	47	50	48	46	48	47	45	47	46	44	43
3	52	48	45	42	51	47	44	41	46	43	41	44	42	40	43	41	39	38
4	49	43	40	37	47	43	39	37	42	39	36	40	38	36	39	37	35	34
5	45	40	36	33	44	39	35	32	38	35	32	37	34	32	36	34	32	31
6	42	36	32	29	41	36	32	29	35	31	29	34	31	29	33	30	28	27
7	39	33	29	26	38	33	29	26	32	28	26	31	28	26	31	28	26	25
8	37	30	26	24	36	30	26	24	29	26	23	29	26	23	28	25	23	22
9	34	28	24	22	34	28	24	21	27	24	21	27	24	21	26	23	21	20
10	32	26	22	20	32	26	22	20	25	22	20	25	22	20	24	21	19	19

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.0	5.2	2.8
10°-20°	64.0	13.9	7.4
20°-30°	100.4	21.8	11.7
30°-40°	116.3	25.2	13.5
40°-50°	99.1	21.5	11.5
50°-60°	53.7	11.6	6.2
60°-70°	3.5	0.7	0.4
70°-80°	0.3	0.1	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°	188.4	40.8	21.9
0°-40°	304.7	66.1	35.4
0°-60°	457.5	99.2	53.2
0°-90°	461.3	100.0	53.6
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°	461.3	100.0	53.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	248	
5°	251	24
15°	226	64
25°	220	100
35°	188	116
45°	130	99
55°	62	54
65°	1	3
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°	247.8
2.5°	247.2
5°	250.9
7.5°	254.8
10°	248.0
12.5°	238.4
15°	225.7
17.5°	215.6
20°	214.7
22.5°	217.6
25°	219.7
27.5°	217.7
30°	211.2
32.5°	201.0
35°	187.5
37.5°	172.5
40°	156.3
42.5°	143.3
45°	129.9
47.5°	114.0
50°	99.2
52.5°	83.0
55°	62.1
57.5°	39.0
60°	17.8
62.5°	3.5
65°	0.9
67.5°	0.7
70°	0.5
72.5°	0.4
75°	0.3
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)