

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: H22070

Luminaire Tested: **H274-400C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22070
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H274-400C
Description: HALO 6" RECESSED PL DOWNLIGHT
SEMI-DIFFUSED CLEAR REFLECTOR
HIGH SOCKET SETTING
Light Source: 13W/QT4 13 WATTS 860 LUMENS
10mm QUAD TUBE COMPACT FLUORESCENT
GX23 D2 BASE
Ballast/Driver: -

Summary

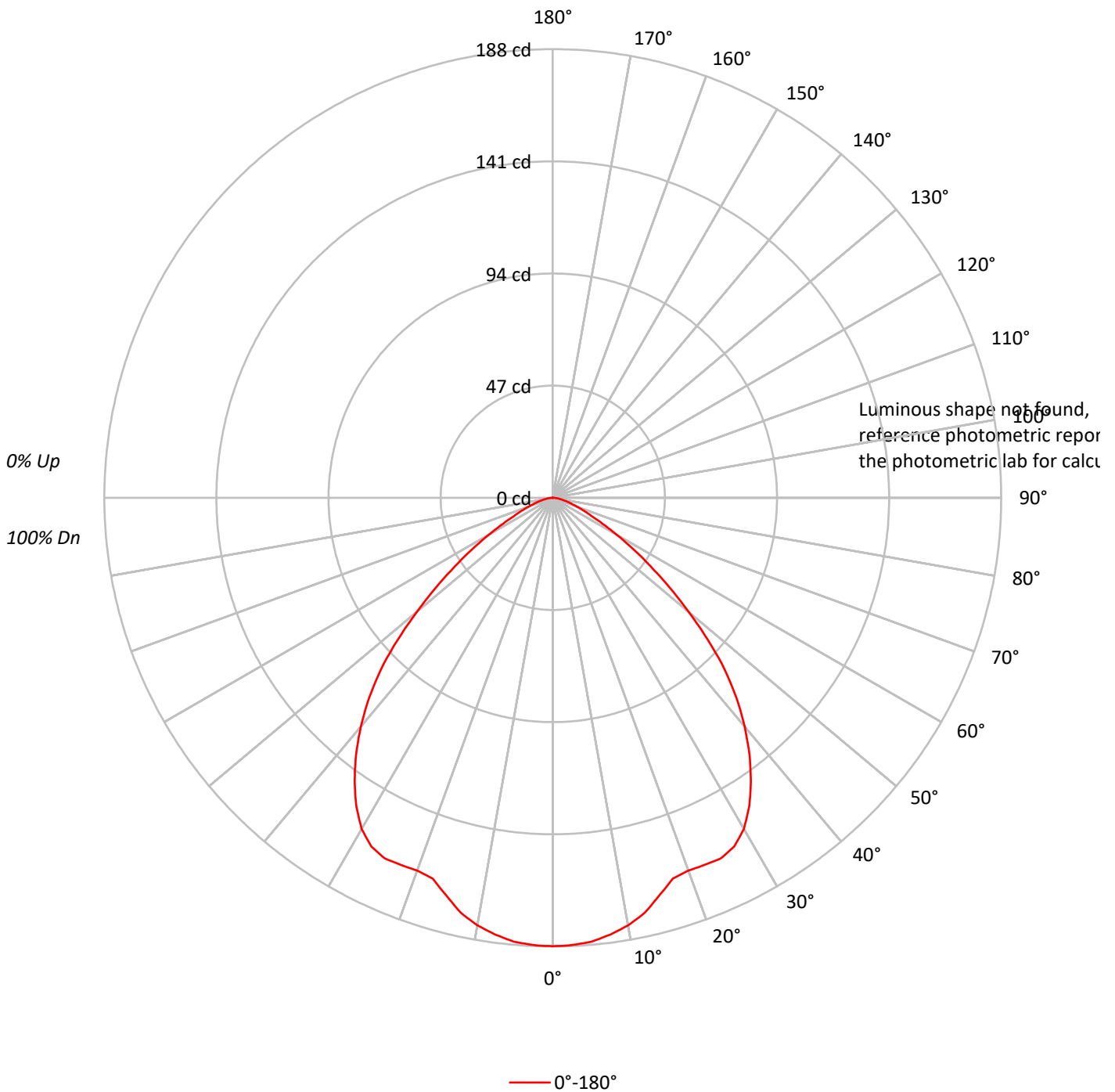
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 383.4 lumens
Efficiency: 44.6%
Efficacy: 21.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.28
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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



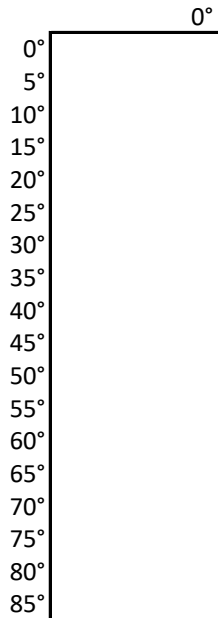


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	53	53	53	53	52	52	52	52	50	50	50		47	47	47		45	45	45	45
1	50	48	46	45	48	47	46	44	45	44	43		43	42	42		42	41	40	40
2	46	43	40	38	45	42	40	38	41	39	37		39	38	36		38	37	36	35
3	43	39	36	33	42	38	35	33	37	34	32		35	33	32		34	33	31	30
4	39	35	31	29	38	34	31	29	33	30	28		32	30	28		31	29	28	27
5	37	32	28	25	36	31	28	25	30	27	25		29	27	25		29	26	25	24
6	34	29	25	23	33	28	25	23	28	25	22		27	24	22		26	24	22	21
7	32	26	23	20	31	26	23	20	25	22	20		25	22	20		24	22	20	19
8	30	24	21	18	29	24	21	18	23	20	18		23	20	18		22	20	18	17
9	28	22	19	17	27	22	19	17	21	19	16		21	18	16		21	18	16	16
10	26	21	17	15	25	20	17	15	20	17	15		20	17	15		19	17	15	14

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.7	4.6	2.1
10°-20°	48.8	12.7	5.7
20°-30°	76.4	19.9	8.9
30°-40°	90.1	23.5	10.5
40°-50°	77.7	20.3	9.0
50°-60°	45.4	11.8	5.3
60°-70°	18.7	4.9	2.2
70°-80°	6.9	1.8	0.8
80°-90°	1.7	0.4	0.2
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°	142.9	37.3	16.6
0°-40°	232.9	60.8	27.1
0°-60°	356.1	92.9	41.4
0°-90°	383.4	100.0	44.6
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°	383.4	100.0	44.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	188	
5°	187	18
15°	172	49
25°	167	76
35°	145	90
45°	102	78
55°	50	45
65°	18	19
75°	6	7
85°	1	2
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°	187.9
2.5°	187.6
5°	186.7
7.5°	184.6
10°	181.9
12.5°	178.1
15°	172.5
17.5°	167.3
20°	166.2
22.5°	166.5
25°	166.7
27.5°	164.7
30°	160.2
32.5°	153.3
35°	144.8
37.5°	135.5
40°	125.1
42.5°	114.1
45°	102.1
47.5°	88.4
50°	74.3
52.5°	61.7
55°	50.0
57.5°	40.0
60°	30.7
62.5°	23.4
65°	17.8
67.5°	14.0
70°	10.7
72.5°	8.2
75°	6.2
77.5°	4.7
80°	3.4
82.5°	2.3
85°	1.4
87.5°	0.7
90°	0.1
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)