

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H35030

Luminaire Tested: **H870-870C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35030
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H870-870C
Description: HALO PL RECESSED OPEN DOWNLIGHT
CLEAR SPECULAR REFLECTOR #870-C
LOW (VERTICAL) LAMP POSITION
Light Source: (1) 28W/QT4 28 WATTS 1600 LUMENS
15MM QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

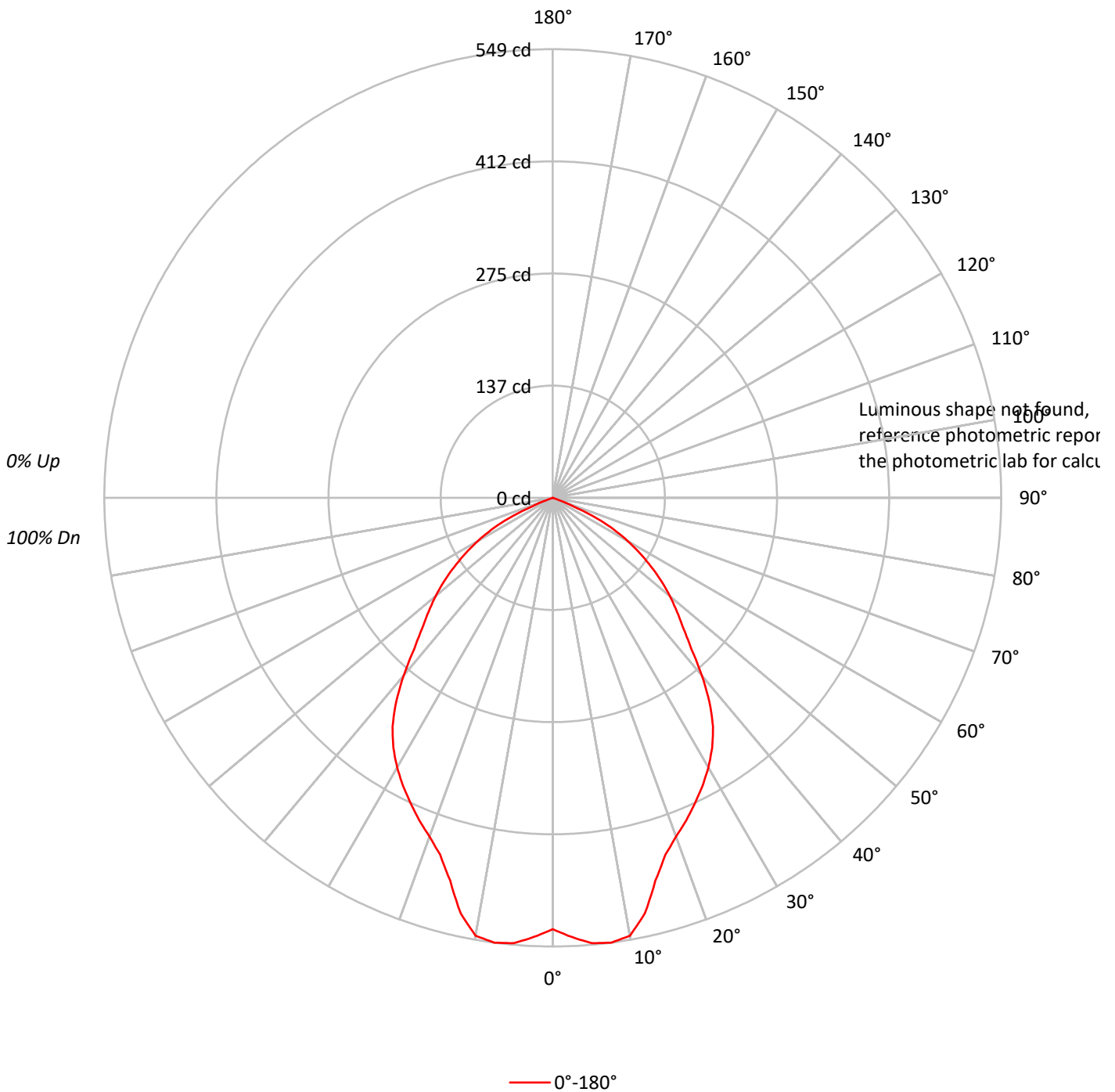
Summary

Lumens per Lamp: 1600 (1 lamp)
Luminaire Lumens: 954.9 lumens
Efficiency: 59.7%
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.17
Luminous Opening: (L: 0' x W: -0.58' x H: 0'
CIE Type: Direct

Input Watts (W): 39
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



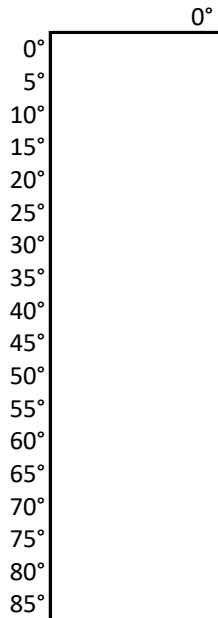


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	71	71	71	71	69	69	69	69	66	66	66		63	63	63		61	61	61	60
1	67	64	63	61	65	63	61	60	61	59	58		58	57	56		56	55	55	53
2	62	58	55	52	60	57	54	52	55	52	50		53	51	49		51	50	48	47
3	57	52	48	45	56	51	48	45	50	47	44		48	45	43		47	44	43	41
4	53	47	43	39	52	46	42	39	45	41	39		44	41	38		42	40	38	37
5	49	43	38	35	48	42	38	35	41	37	34		40	37	34		39	36	34	32
6	46	39	34	31	45	38	34	31	37	34	31		37	33	30		36	33	30	29
7	43	36	31	28	42	35	31	28	34	30	28		34	30	27		33	30	27	26
8	40	33	28	25	39	32	28	25	32	28	25		31	27	25		30	27	25	24
9	38	30	26	23	37	30	26	23	29	26	23		29	25	23		28	25	23	22
10	35	28	24	21	35	28	24	21	27	24	21		27	23	21		26	23	21	20

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.1	5.5	3.3
10°-20°	137.0	14.3	8.6
20°-30°	189.8	19.9	11.9
30°-40°	211.2	22.1	13.2
40°-50°	176.8	18.5	11.1
50°-60°	131.3	13.7	8.2
60°-70°	55.7	5.8	3.5
70°-80°	1.0	0.1	0.1
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°	378.9	39.7	23.7
0°-40°	590.1	61.8	36.9
0°-60°	898.2	94.1	56.1
0°-90°	954.9	100.0	59.7
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°	954.9	100.0	59.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	528	
5°	547	52
15°	485	137
25°	412	190
35°	342	211
45°	226	177
55°	147	131
65°	60	56
75°	1	1
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°	528
2.5°	538
5°	547
7.5°	549
10°	544
12.5°	521
15°	485
17.5°	458
20°	441
22.5°	427
25°	412
27.5°	397
30°	381
32.5°	363
35°	342
37.5°	315
40°	284
42.5°	251
45°	226
47.5°	206
50°	187
52.5°	168
55°	147
57.5°	127
60°	106
62.5°	85
65°	60
67.5°	27
70°	4
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)