

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: H35032

Luminaire Tested: **H870-870BA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H35032
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H870-870BA
Description: HALO PL RECESSED OPEN DOWNLIGHT
CLEAR SPECULAR REFLECTOR W/BAFFLE #870-BA
LOW (VERTICAL) LAMP POSITION
Light Source: (1) 28W/QT4 28 WATTS 1600 LUMENS
15mm QUAD TUBE COMPACT FLUORESCENT
GX32 D-3 BASE
Ballast/Driver: -

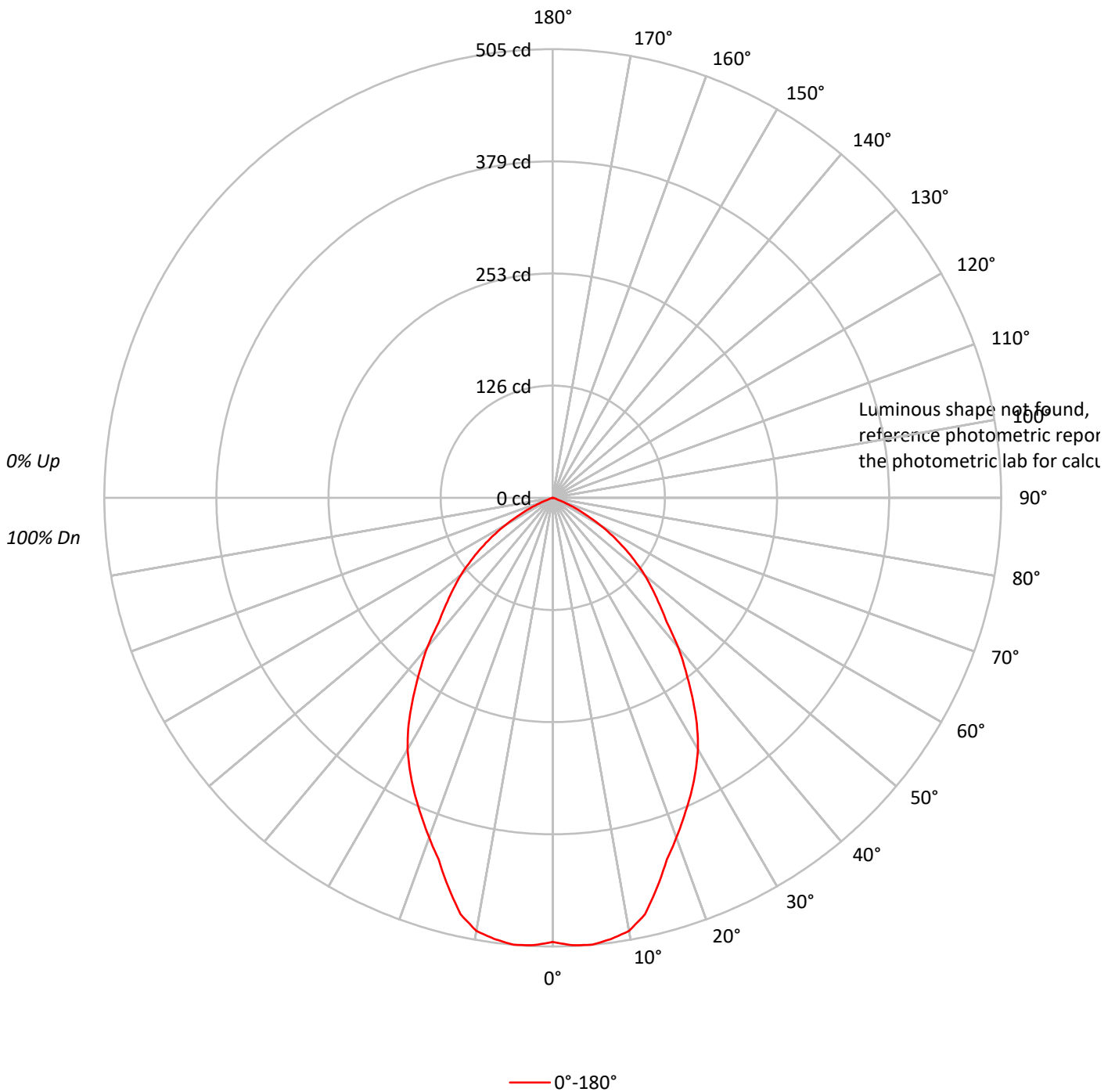
Summary

Lumens per Lamp: 1600 (1 lamp)
Luminaire Lumens: 767.4 lumens
Efficiency: 48.0%
Efficacy: 19.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.08
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 39
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

TEST NUMBER: H35032
CATALOG NUMBER: H870-870BA

Luminous Intensity Polar Plot



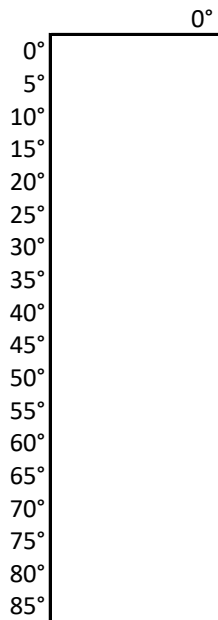


TEST NUMBER: H35032
 CATALOG NUMBER: H870-870BA

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	57	57	57	57	56	56	56	56	53	53	53		51	51	51		49	49	49	48
1	54	52	51	49	52	51	50	48	49	48	47		47	46	46		46	45	44	43
2	50	47	45	43	49	46	44	42	45	43	41		43	42	40		42	41	39	39
3	47	43	40	37	46	42	39	37	41	38	36		39	37	36		38	37	35	34
4	43	39	35	33	42	38	35	33	37	34	32		36	34	32		35	33	32	31
5	41	35	32	29	40	35	32	29	34	31	29		33	31	29		32	30	28	27
6	38	33	29	26	37	32	29	26	31	28	26		31	28	26		30	27	26	25
7	35	30	26	24	35	30	26	24	29	26	24		28	26	23		28	25	23	23
8	33	28	24	22	33	27	24	22	27	24	22		26	23	21		26	23	21	21
9	31	26	22	20	31	25	22	20	25	22	20		24	22	20		24	21	20	19
10	30	24	21	18	29	24	20	18	23	20	18		23	20	18		22	20	18	17

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H35032
 CATALOG NUMBER: H870-870BA

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.8	6.2	3.0
10°-20°	127.0	16.6	7.9
20°-30°	169.0	22.0	10.6
30°-40°	170.7	22.2	10.7
40°-50°	132.6	17.3	8.3
50°-60°	87.4	11.4	5.5
60°-70°	30.5	4.0	1.9
70°-80°	2.2	0.3	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°	343.9	44.8	21.5
0°-40°	514.6	67.1	32.2
0°-60°	734.7	95.7	45.9
0°-90°	767.4	100.0	48.0
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°	767.4	100.0	48.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	500	
5°	505	48
15°	454	127
25°	368	169
35°	274	171
45°	170	133
55°	98	87
65°	30	31
75°	1	2
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



TEST NUMBER: H35032
CATALOG NUMBER: H870-870BA

CANDELA DISTRIBUTION (FULL):

0°	
0°	500
2.5°	504
5°	505
7.5°	501
10°	495
12.5°	480
15°	454
17.5°	427
20°	407
22.5°	387
25°	368
27.5°	348
30°	327
32.5°	302
35°	274
37.5°	246
40°	220
42.5°	190
45°	170
47.5°	152
50°	135
52.5°	116
55°	98
57.5°	80
60°	62
62.5°	45
65°	30
67.5°	16
70°	5
72.5°	4
75°	1
77.5°	1
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



TEST NUMBER: H35032
CATALOG NUMBER: H870-870BA

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)