

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: H23288

Luminaire Tested: **H880E-870C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23288
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H880E-870C
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
LOW SOCKET SETTING
Light Source: 32W PLT 32 WATTS 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

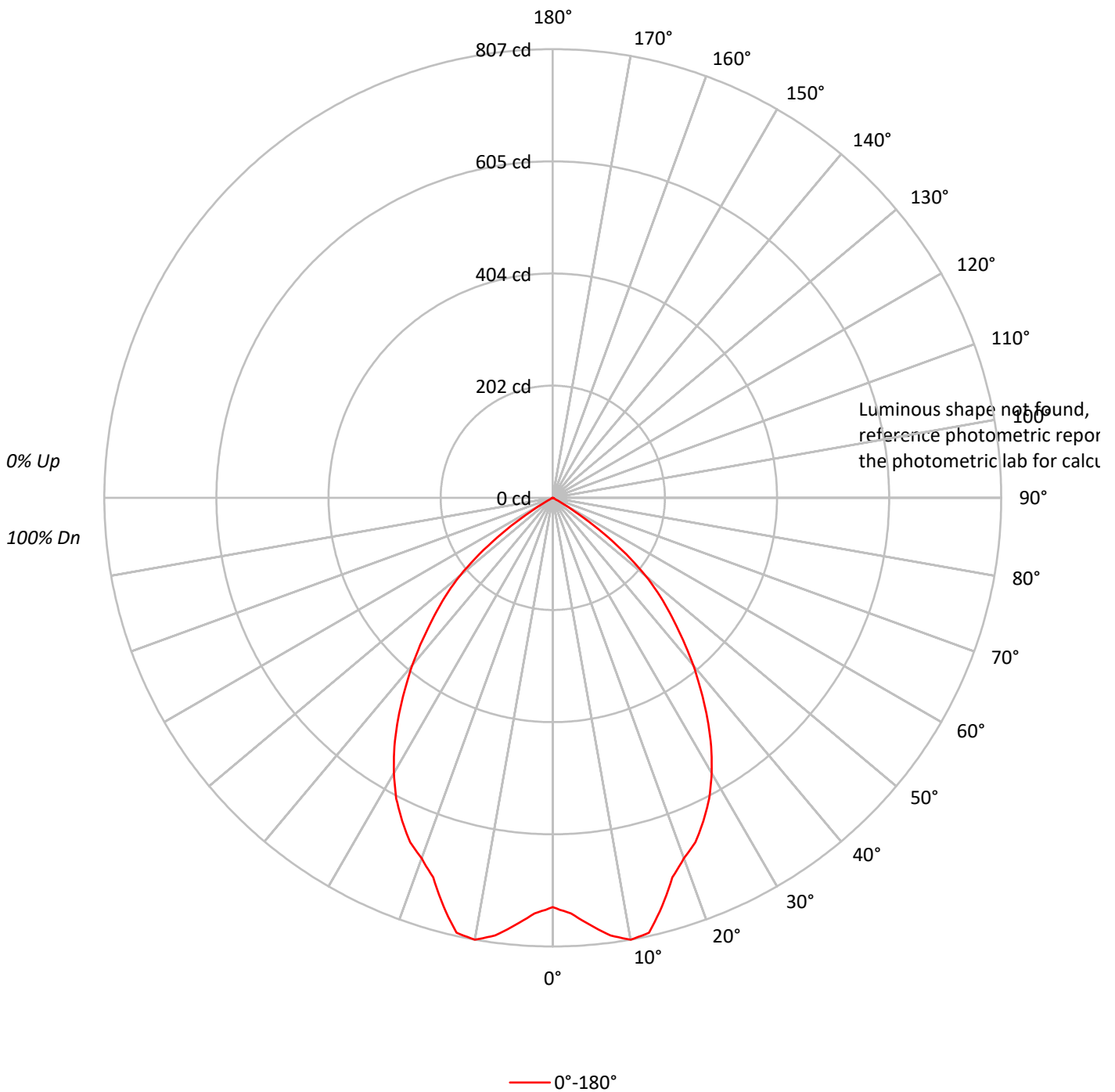
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1219.8 lumens
Efficiency: 50.8%
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.17
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 33
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	61	61	61	61	59	59	59	59	56	56	56		54	54	54		52	52	52	51
1	57	56	54	53	56	54	53	52	52	51	50		50	50	49		49	48	47	46
2	54	51	48	46	52	50	48	46	48	46	45		47	45	44		45	44	43	42
3	50	46	43	41	49	46	43	41	44	42	40		43	41	39		42	40	39	38
4	47	42	39	36	46	42	39	36	41	38	36		39	37	35		38	36	35	34
5	44	39	35	33	43	38	35	32	37	34	32		36	34	32		36	33	32	31
6	41	36	32	29	40	35	32	29	34	31	29		34	31	29		33	31	29	28
7	38	33	29	27	38	33	29	27	32	29	26		31	28	26		31	28	26	25
8	36	30	27	24	35	30	27	24	30	26	24		29	26	24		28	26	24	23
9	34	28	25	22	33	28	25	22	27	24	22		27	24	22		26	24	22	21
10	32	26	23	21	32	26	23	21	26	23	20		25	22	20		25	22	20	20

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.8	6.1	3.1
10°-20°	212.4	17.4	8.9
20°-30°	293.8	24.1	12.2
30°-40°	302.0	24.8	12.6
40°-50°	234.0	19.2	9.8
50°-60°	99.6	8.2	4.1
60°-70°	3.0	0.2	0.1
70°-80°	0.3	0.0	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°	581.0	47.6	24.2
0°-40°	883.0	72.4	36.8
0°-60°	1216.6	99.7	50.7
0°-90°	1219.8	100.0	50.8
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°	1219.8	100.0	50.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	736	
5°	771	75
15°	760	212
25°	641	294
35°	485	302
45°	303	234
55°	111	100
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°	736.4
2.5°	748.2
5°	771.3
7.5°	794.1
10°	807.1
12.5°	801.2
15°	760.4
17.5°	715.7
20°	690.1
22.5°	670.7
25°	641.2
27.5°	609.9
30°	571.7
32.5°	530.5
35°	485.3
37.5°	438.5
40°	393.5
42.5°	346.9
45°	302.7
47.5°	262.7
50°	218.1
52.5°	166.9
55°	110.9
57.5°	57.8
60°	14.6
62.5°	2.2
65°	1.4
67.5°	1.0
70°	0.8
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)