

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: H23290

Luminaire Tested: **H880E-870WB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23290
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H880E-870WB
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH WHITE BAFFLE
LOW SOCKET SETTING
Light Source: 32W PLT 32 WATTS 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

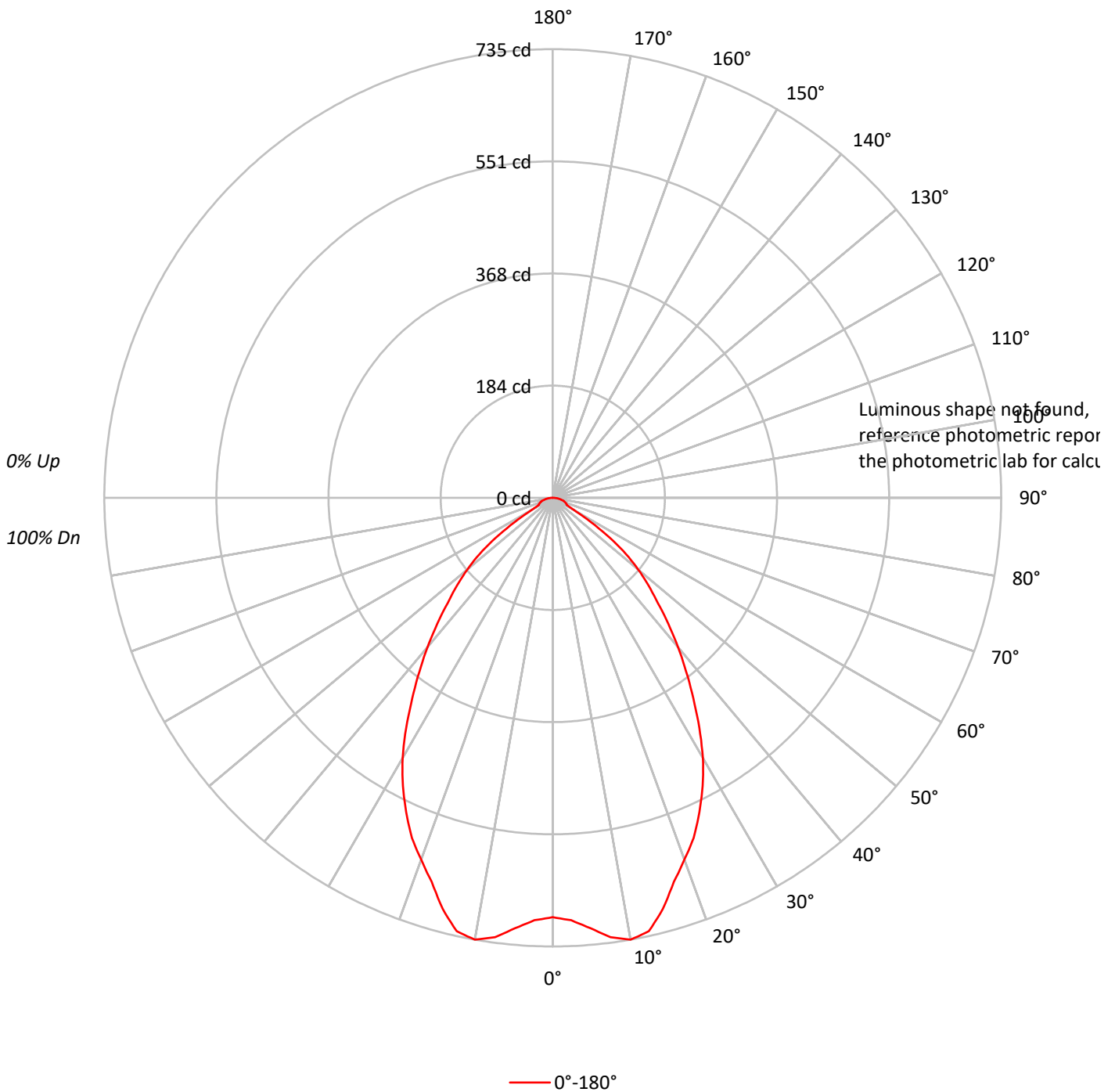
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1114.5 lumens
Efficiency: 46.4%
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.11
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



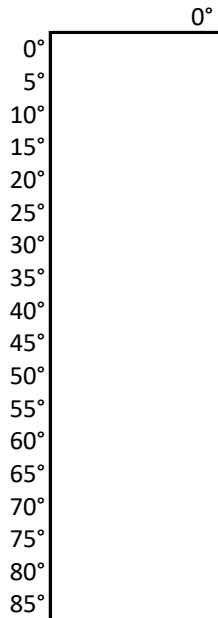


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	55	55	55	55	54	54	54	54	52	52	52		49	49	49		47	47	47	46
1	52	50	49	48	51	49	48	47	47	46	45		46	45	44		44	43	43	42
2	48	46	43	41	47	45	43	41	43	41	40		42	40	39		40	39	38	37
3	45	41	39	36	44	41	38	36	40	37	35		38	36	35		37	36	34	33
4	42	38	35	32	41	37	34	32	36	34	32		35	33	31		34	32	31	30
5	39	35	31	29	39	34	31	29	33	31	28		32	30	28		32	30	28	27
6	37	32	28	26	36	31	28	26	31	28	26		30	27	25		29	27	25	24
7	35	29	26	24	34	29	26	24	28	25	23		28	25	23		27	25	23	22
8	33	27	24	22	32	27	24	21	26	23	21		26	23	21		25	23	21	20
9	31	25	22	20	30	25	22	20	25	22	20		24	21	20		24	21	20	19
10	29	24	20	18	28	23	20	18	23	20	18		23	20	18		22	20	18	17

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	68.5	6.1	2.9
10°-20°	194.4	17.4	8.1
20°-30°	260.2	23.4	10.8
30°-40°	251.3	22.5	10.5
40°-50°	189.9	17.0	7.9
50°-60°	100.0	9.0	4.2
60°-70°	26.0	2.3	1.1
70°-80°	17.9	1.6	0.7
80°-90°	6.3	0.6	0.3
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°	523.2	46.9	21.8
0°-40°	774.5	69.5	32.3
0°-60°	1064.3	95.5	44.3
0°-90°	1114.5	100.0	46.4
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°	1114.5	100.0	46.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	687	
5°	708	69
15°	697	194
25°	568	260
35°	402	251
45°	244	190
55°	114	100
65°	25	26
75°	18	18
85°	6	6
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°	687.1
2.5°	692.6
5°	707.6
7.5°	726.0
10°	734.9
12.5°	727.4
15°	697.2
17.5°	659.7
20°	630.7
22.5°	603.3
25°	568.5
27.5°	532.2
30°	492.1
32.5°	447.1
35°	401.5
37.5°	359.1
40°	319.8
42.5°	280.1
45°	243.6
47.5°	212.9
50°	183.1
52.5°	151.5
55°	114.4
57.5°	74.5
60°	39.0
62.5°	26.5
65°	24.8
67.5°	23.5
70°	21.6
72.5°	19.7
75°	17.5
77.5°	14.3
80°	11.4
82.5°	8.5
85°	5.8
87.5°	3.0
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)