

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: H23289

Luminaire Tested: **H880E-870BA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23289
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H880E-870BA
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH BLACK BAFFLE
LOW SOCKET SETTING
Light Source: 32W PLT 32 WATTS 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

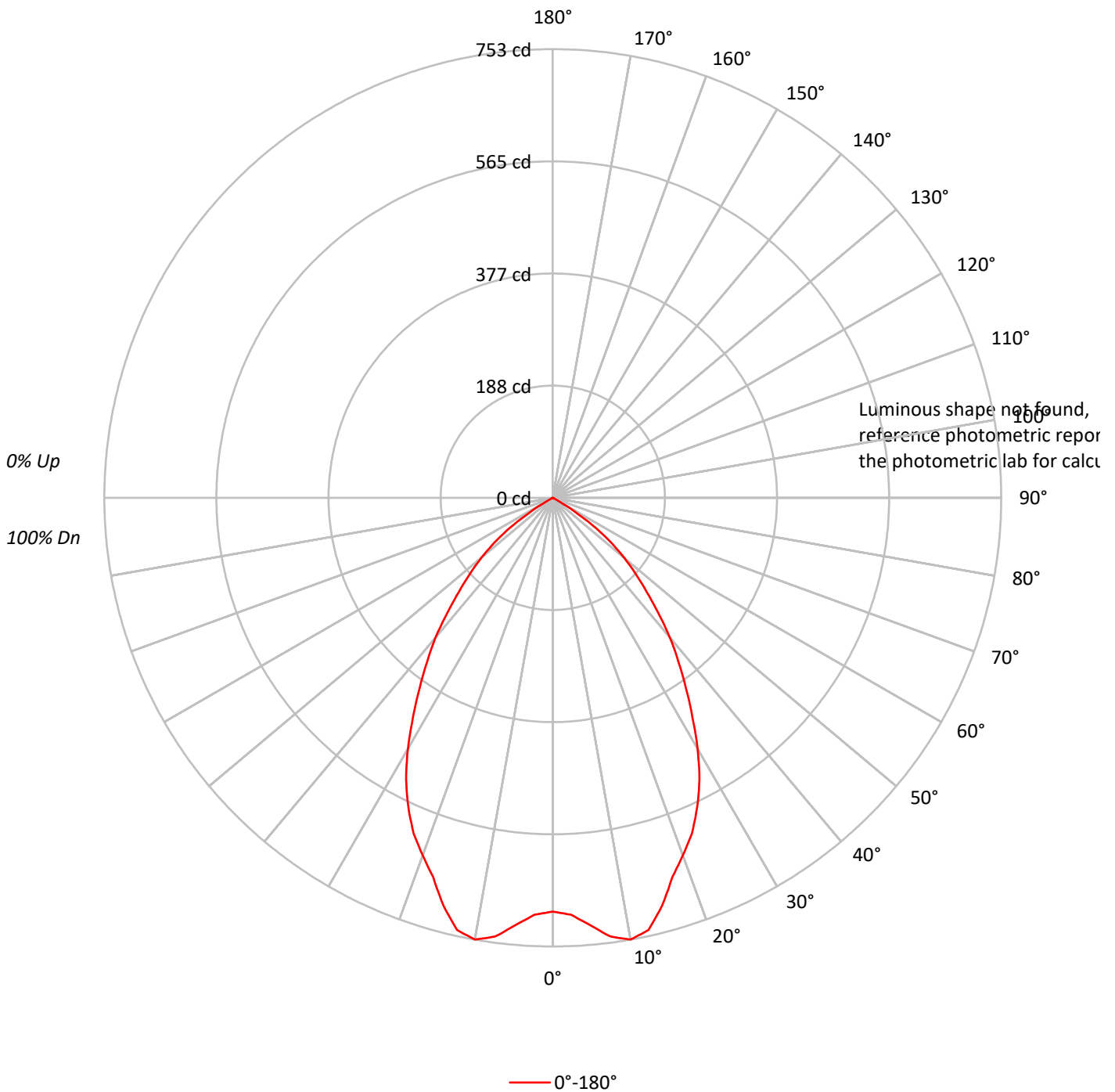
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1026.9 lumens
Efficiency: 42.8%
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.08
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	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	43
1	48	47	46	45	47	46	45	44	44	43	42	43	42	41	41	41	40	39
2	45	43	41	39	44	42	40	39	41	39	38	39	38	37	38	37	36	36
3	42	39	37	35	42	39	36	35	37	36	34	36	35	33	35	34	33	32
4	40	36	33	31	39	36	33	31	35	32	31	34	32	30	33	31	30	29
5	37	33	30	28	37	33	30	28	32	30	28	31	29	27	30	29	27	26
6	35	31	28	25	34	30	27	25	30	27	25	29	27	25	28	26	25	24
7	33	28	25	23	32	28	25	23	27	25	23	27	25	23	26	24	23	22
8	31	26	23	21	30	26	23	21	26	23	21	25	23	21	25	22	21	20
9	29	24	22	20	29	24	21	20	24	21	19	23	21	19	23	21	19	19
10	28	23	20	18	27	23	20	18	22	20	18	22	20	18	22	19	18	17

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.9	6.8	2.9
10°-20°	197.6	19.2	8.2
20°-30°	261.7	25.5	10.9
30°-40°	244.2	23.8	10.2
40°-50°	173.4	16.9	7.2
50°-60°	75.7	7.4	3.2
60°-70°	3.2	0.3	0.1
70°-80°	0.9	0.1	0.0
80°-90°	0.2	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°	529.3	51.5	22.1
0°-40°	773.5	75.3	32.2
0°-60°	1022.6	99.6	42.6
0°-90°	1026.9	100.0	42.8
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°	1026.9	100.0	42.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	694	
5°	720	70
15°	709	198
25°	574	262
35°	390	244
45°	223	173
55°	87	76
65°	2	3
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°	694.5
2.5°	700.1
5°	719.8
7.5°	742.7
10°	752.8
12.5°	743.0
15°	708.8
17.5°	667.6
20°	638.4
22.5°	610.1
25°	573.6
27.5°	533.4
30°	486.7
32.5°	436.6
35°	389.5
37.5°	346.6
40°	306.1
42.5°	261.4
45°	222.9
47.5°	188.3
50°	156.0
52.5°	123.3
55°	87.3
57.5°	48.3
60°	12.8
62.5°	2.7
65°	1.8
67.5°	1.5
70°	1.2
72.5°	1.0
75°	0.8
77.5°	0.7
80°	0.6
82.5°	0.4
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)