

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: H23312

Luminaire Tested: **H802HP-801P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H23312
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802HP-801P
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH DROP OPAL GLASS LENS
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

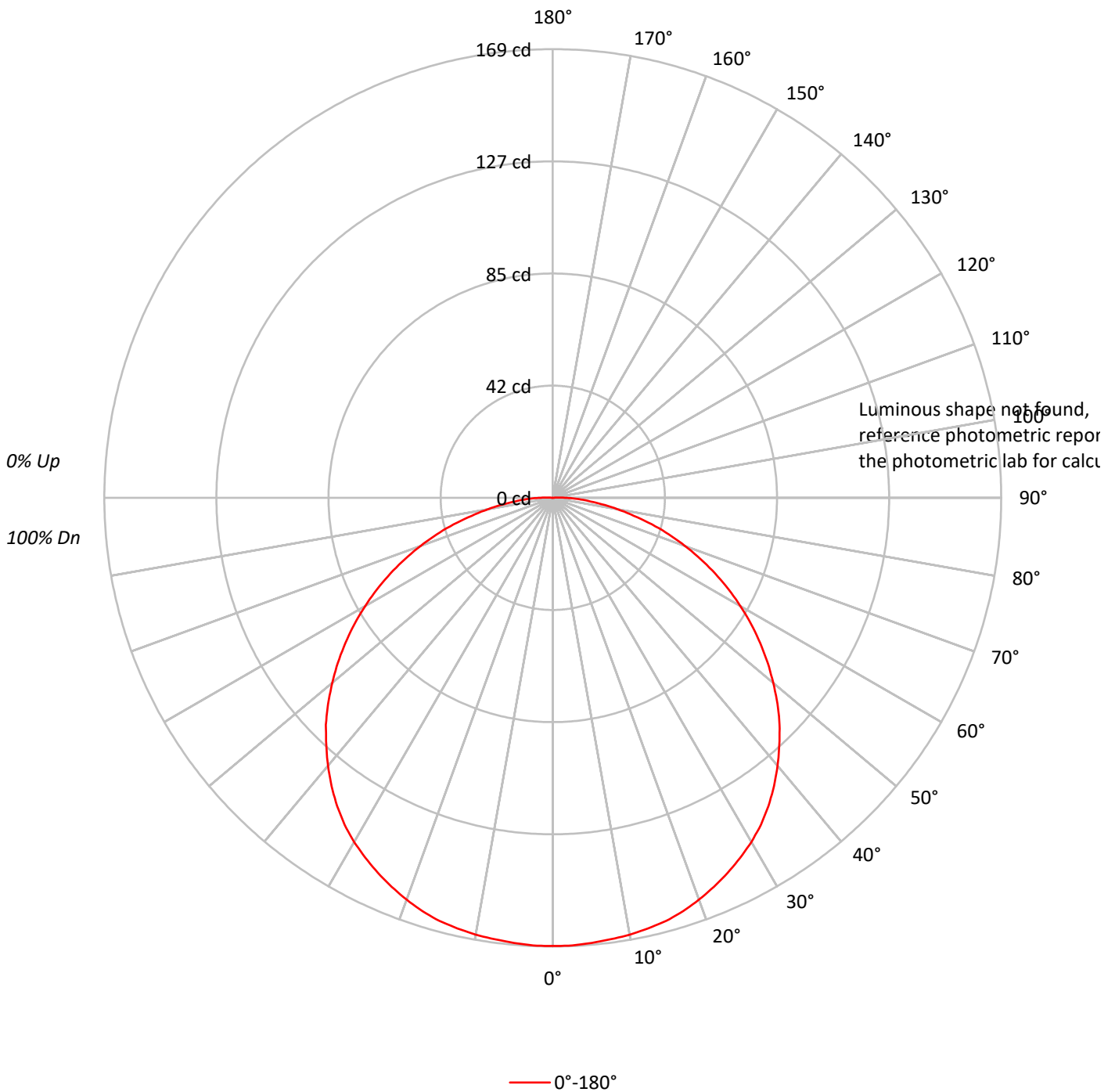
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 525.6 lumens
Efficiency: 21.0%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.42
Luminous Opening: (L: 0 ' x W: -0.54 ' x H: 0.03 '
CIE Type: Direct

Input Watts (W): 51
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

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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	25	25	25	25	24	24	24	24	23	23	23	22	22	22	21	21	21	21
1	23	22	21	20	22	21	20	20	20	20	19	19	19	18	19	18	18	17
2	21	19	17	16	20	18	17	16	18	16	15	17	16	15	16	15	15	14
3	19	16	15	13	18	16	14	13	15	14	13	15	14	13	14	13	12	12
4	17	15	13	11	17	14	12	11	14	12	11	13	12	11	13	12	11	10
5	16	13	11	10	15	13	11	9	12	11	9	12	10	9	11	10	9	9
6	14	12	10	8	14	11	10	8	11	9	8	11	9	8	10	9	8	8
7	13	11	9	7	13	10	9	7	10	8	7	10	8	7	9	8	7	7
8	12	10	8	7	12	9	8	6	9	8	6	9	7	6	9	7	6	6
9	12	9	7	6	11	9	7	6	8	7	6	8	7	6	8	7	6	5
10	11	8	6	5	11	8	6	5	8	6	5	8	6	5	7	6	5	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.0	3.0	0.6
10°-20°	46.6	8.9	1.9
20°-30°	71.9	13.7	2.9
30°-40°	88.6	16.9	3.5
40°-50°	93.1	17.7	3.7
50°-60°	85.3	16.2	3.4
60°-70°	66.8	12.7	2.7
70°-80°	40.8	7.8	1.6
80°-90°	15.2	2.9	0.6
90°-100°	1.2	0.2	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°	134.5	25.6	5.4
0°-40°	223.1	42.4	8.9
0°-60°	401.5	76.4	16.1
0°-90°	524.4	99.8	21.0
90°-120°	1.2	0.2	0.0
90°-150°	1.2	0.2	0.0
90°-180°	1.0	0.2	0.0
0°-180°	525.6	100.0	21.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	169	
5°	168	16
15°	165	47
25°	156	72
35°	142	89
45°	121	93
55°	95	85
65°	68	67
75°	39	41
85°	13	13
90°	5	3
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°	168.8
2.5°	168.8
5°	168.3
7.5°	167.7
10°	167.1
12.5°	166.1
15°	165.0
17.5°	163.3
20°	161.1
22.5°	158.6
25°	155.9
27.5°	152.9
30°	149.7
32.5°	146.0
35°	141.7
37.5°	136.9
40°	131.8
42.5°	126.3
45°	120.9
47.5°	114.9
50°	108.4
52.5°	102.1
55°	95.4
57.5°	88.7
60°	81.7
62.5°	74.7
65°	67.5
67.5°	60.3
70°	53.0
72.5°	45.9
75°	38.7
77.5°	31.3
80°	24.9
82.5°	18.7
85°	13.3
87.5°	8.9
90°	5.3
92.5°	1.6
95°	0.2
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)