

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: H23286

Luminaire Tested: **H802HP-804**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23286
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802HP-804
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH HAZE CROSS BLADE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

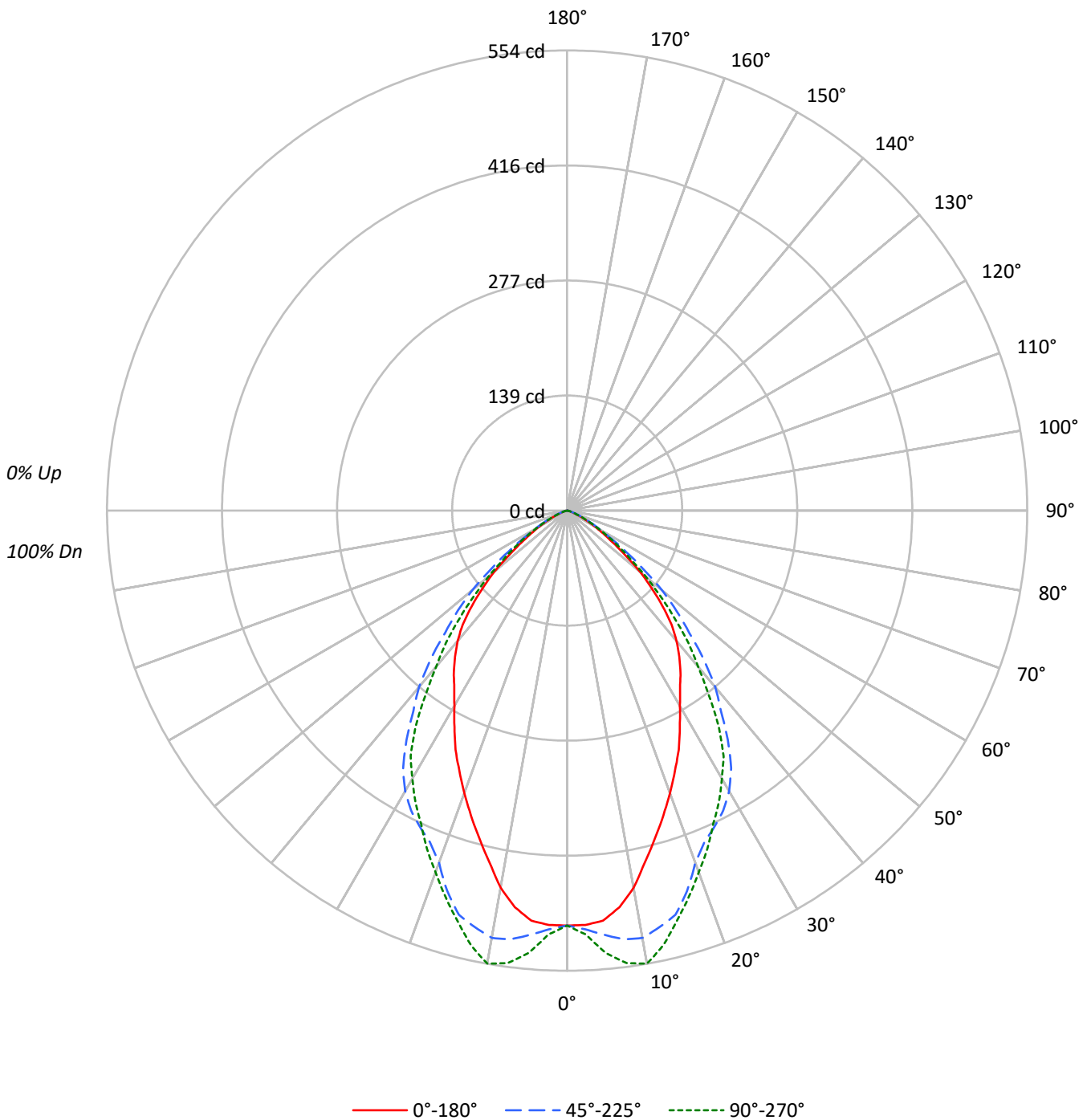
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 802.0 lumens
Efficiency: 32.1%
Efficacy: 15.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1.13 / 1.18
Luminous Opening: (L: 0 ' x W: -0.56 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 52
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						
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10			
RCR																							
0	38	38	38	38	37	37	37	37	36	36	36	34	34	34	33	33	33	32	32	32	30	30	30
1	36	35	34	33	35	34	33	32	33	32	31	32	31	31	31	30	30	29	29	29	27	27	27
2	34	32	30	29	33	31	30	28	30	29	28	29	28	27	28	27	27	26	26	26	24	24	24
3	31	29	27	25	31	28	26	25	27	26	25	27	25	24	26	25	24	23	23	23	21	21	21
4	29	26	24	22	29	26	24	22	25	23	22	24	23	22	24	22	21	21	21	21	19	19	19
5	27	24	22	20	27	24	21	20	23	21	20	22	21	19	22	20	19	19	19	19	17	17	17
6	26	22	20	18	25	22	20	18	21	19	18	21	19	18	20	19	17	17	17	17	15	15	15
7	24	20	18	16	23	20	18	16	20	18	16	19	17	16	19	17	16	15	15	15	13	13	13
8	22	19	16	15	22	19	16	15	18	16	15	18	16	15	17	16	15	14	14	14	12	12	12
9	21	17	15	14	21	17	15	14	17	15	14	17	15	13	16	15	13	13	13	13	11	11	11
10	20	16	14	13	20	16	14	13	16	14	12	15	14	12	15	14	12	12	12	12	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.0	6.1	2.0
10°-20°	134.5	16.8	5.4
20°-30°	182.4	22.7	7.3
30°-40°	191.2	23.8	7.6
40°-50°	144.7	18.0	5.8
50°-60°	71.9	9.0	2.9
60°-70°	22.8	2.8	0.9
70°-80°	4.9	0.6	0.2
80°-90°	0.7	0.1	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°	365.9	45.6	14.6
0°-40°	557.1	69.5	22.3
0°-60°	773.7	96.5	30.9
0°-90°	802.0	100.0	32.1
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°	802.0	100.0	32.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	496	500	513	526	535	46
15°	408	449	504	516	511	115
25°	318	374	420	423	416	145
35°	238	292	337	330	318	149
45°	162	182	208	187	183	124
55°	67	73	87	79	77	63
65°	19	21	24	22	21	20
75°	4	4	4	4	4	4
85°	0	0	0	0	0	1
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.6	499.6	499.6	499.6	499.6
2.5°	499.3	500.4	504.6	508.5	510.6
5°	495.6	499.8	512.8	525.6	534.7
7.5°	481.6	492.6	520.6	541.1	549.5
10°	461.0	480.1	522.4	547.8	553.8
12.5°	433.1	463.1	513.7	537.2	535.8
15°	408.5	449.2	503.8	516.1	511.0
17.5°	384.9	428.3	480.3	488.4	487.5
20°	361.9	408.6	451.1	463.5	463.2
22.5°	339.1	390.4	431.9	443.6	441.0
25°	317.7	373.8	419.9	422.7	416.1
27.5°	293.7	356.9	407.0	405.8	395.7
30°	271.4	336.8	390.0	386.3	372.5
32.5°	252.8	315.1	367.5	364.5	350.6
35°	237.9	291.7	337.3	330.2	318.4
37.5°	221.8	266.0	304.3	285.8	280.3
40°	205.0	238.6	277.5	248.1	245.2
42.5°	186.2	211.6	243.6	218.7	215.8
45°	162.1	182.5	207.6	187.0	182.7
47.5°	137.5	153.1	178.3	158.0	151.7
50°	114.8	124.9	148.8	132.5	123.2
52.5°	87.9	97.2	114.8	106.5	96.6
55°	66.9	72.7	86.7	79.4	76.8
57.5°	51.4	53.3	62.9	57.6	58.5
60°	38.5	39.2	45.1	41.2	43.0
62.5°	27.6	29.2	33.6	30.8	31.6
65°	18.6	20.6	24.2	21.7	21.2
67.5°	12.1	14.1	16.7	14.9	13.9
70°	7.8	9.2	10.9	9.7	9.1
72.5°	5.3	5.9	7.1	6.3	6.0
75°	3.5	3.8	4.5	4.1	3.8
77.5°	2.3	2.5	2.8	2.7	2.6
80°	1.5	1.6	1.8	1.7	1.6
82.5°	0.9	0.9	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)