

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: H20005

Luminaire Tested: **L1752**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20005
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L1752
Description: HALO TRACK WALL WASHER
 FROSTED LENS DIFFUSED REFLECTOR
Light Source: Q150 150 WATTS 2700 LUMENS
 MINI-CAN BASE FROSTED
Ballast/Driver: -

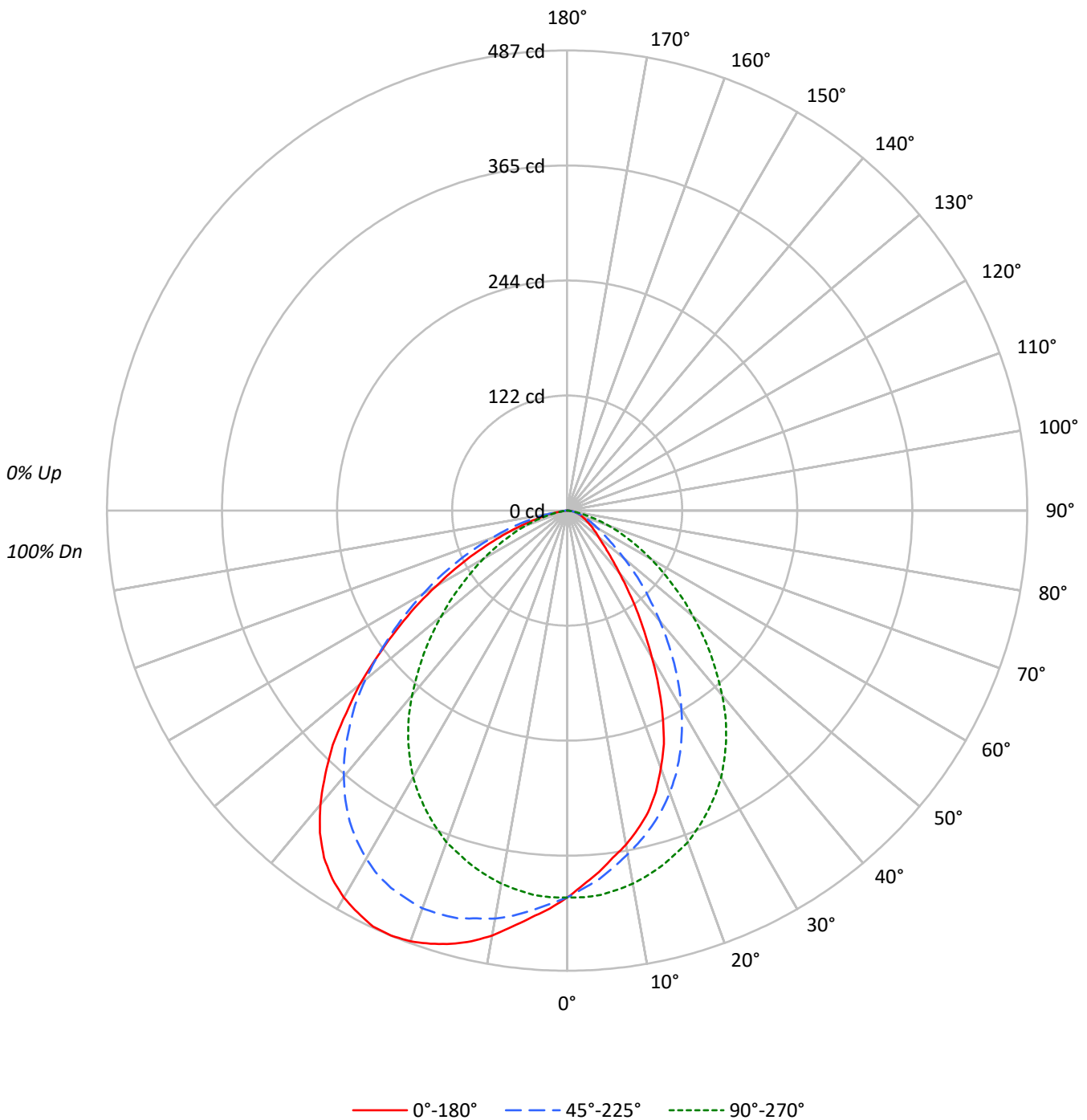
Summary

Lumens per Lamp: 2700 (1 lamp)
Luminaire Lumens: 893.1 lumens
Efficiency: 33.1%
Efficacy: 6.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 150
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	39	39	39	39	38	38	38	38	37	37	37	35	35	35	34	34	34	33
1	37	35	34	33	36	34	33	32	33	32	31	32	31	30	31	30	30	29
2	34	31	29	28	33	31	29	27	30	28	27	29	27	26	28	27	26	25
3	31	28	26	24	30	27	25	23	26	25	23	26	24	23	25	23	22	22
4	29	25	22	20	28	25	22	20	24	22	20	23	21	20	22	21	20	19
5	27	23	20	18	26	22	20	18	22	19	18	21	19	17	20	19	17	17
6	25	21	18	16	24	20	18	16	20	17	16	19	17	16	19	17	15	15
7	23	19	16	14	22	18	16	14	18	16	14	18	15	14	17	15	14	13
8	21	17	15	13	21	17	14	13	17	14	13	16	14	13	16	14	13	12
9	20	16	13	12	20	16	13	12	15	13	11	15	13	11	15	13	11	11
10	19	15	12	11	18	15	12	11	14	12	10	14	12	10	14	12	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
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°	38.8	4.3	1.4
10°-20°	111.6	12.5	4.1
20°-30°	165.0	18.5	6.1
30°-40°	183.8	20.6	6.8
40°-50°	165.5	18.5	6.1
50°-60°	122.6	13.7	4.5
60°-70°	73.0	8.2	2.7
70°-80°	28.5	3.2	1.1
80°-90°	4.2	0.5	0.2
90°-100°	0.1	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°	315.4	35.3	11.7
0°-40°	499.1	55.9	18.5
0°-60°	787.2	88.1	29.2
0°-90°	893.0	100.0	33.1
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	893.1	100.0	33.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	410	410	410	410	410	
5°	384	391	408	425	432	36
15°	331	346	389	447	475	92
25°	239	283	352	441	486	109
35°	128	197	293	402	448	80
45°	59	113	215	326	351	47
55°	34	53	136	226	221	30
65°	20	26	72	128	108	20
75°	11	12	25	48	32	12
85°	4	4	2	3	2	4
90°	0	1	1	1	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°	112.5°	135°	157.5°	180°
0°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	396.3	399.8	400.1	404.6	409.6	413.6	416.6	418.8	421.5
5°	384.0	385.8	391.3	399.3	408.3	416.6	424.6	430.1	432.1
7.5°	370.5	373.9	380.2	391.6	404.9	419.1	432.3	441.2	444.1
10°	359.0	361.4	369.3	384.0	400.9	419.1	438.5	452.3	456.6
12.5°	345.3	348.7	357.9	373.6	395.3	419.4	442.1	461.2	466.9
15°	330.9	334.5	345.8	364.6	388.9	417.3	446.7	467.3	474.7
17.5°	312.0	317.3	332.7	352.9	381.0	414.6	447.9	472.0	480.7
20°	290.2	298.8	317.7	341.6	373.5	410.3	447.9	474.2	485.1
22.5°	267.6	276.8	301.3	328.8	362.8	403.7	444.5	475.4	486.8
25°	239.3	253.1	282.8	315.8	351.7	396.7	440.7	472.5	485.8
27.5°	209.4	226.3	263.0	302.0	339.3	386.5	434.5	469.1	479.9
30°	179.2	197.9	241.9	285.3	326.0	375.7	425.3	459.7	472.9
32.5°	151.9	171.2	220.0	268.5	310.0	362.0	414.4	449.7	462.4
35°	127.8	146.1	197.3	249.7	293.4	347.1	401.5	435.8	448.5
37.5°	104.7	122.1	174.5	231.2	275.3	330.1	385.7	418.0	429.8
40°	85.7	101.6	152.4	211.5	255.1	311.7	367.7	396.9	406.5
42.5°	70.6	83.2	131.6	192.6	234.6	291.7	348.5	373.4	378.8
45°	59.1	68.7	113.3	172.8	214.7	271.8	326.3	346.0	350.7
47.5°	49.6	57.4	95.3	154.5	194.3	249.3	304.3	315.7	317.1
50°	43.4	48.4	78.5	136.0	173.9	228.2	278.9	287.2	286.5
52.5°	38.5	42.4	64.4	118.9	155.0	205.3	252.5	255.5	252.4
55°	33.5	36.8	53.2	103.5	135.5	183.4	226.4	225.9	220.6
57.5°	29.4	32.1	44.3	89.1	118.4	162.6	201.3	196.6	190.9
60°	26.0	28.2	37.6	76.3	102.4	142.0	175.8	169.2	160.2
62.5°	23.0	24.6	31.4	64.1	86.6	121.5	152.6	141.8	133.8
65°	20.3	21.6	26.1	52.7	72.5	103.2	128.5	116.1	108.2
67.5°	17.8	18.7	21.8	43.0	59.3	84.3	106.5	93.3	84.7
70°	15.4	16.1	17.8	33.7	46.4	66.8	85.0	71.4	65.0
72.5°	13.2	13.8	14.6	25.3	35.8	51.2	66.3	52.4	46.4
75°	11.3	11.5	11.7	17.7	24.9	36.5	47.6	37.4	32.4
77.5°	9.4	9.6	9.2	11.6	15.1	22.9	32.0	23.5	20.6
80°	7.9	7.8	7.1	6.9	7.7	11.3	17.6	13.5	11.5
82.5°	5.6	5.8	5.3	4.3	4.0	4.5	7.0	5.9	4.8
85°	3.9	4.0	3.6	2.7	2.1	2.4	2.8	2.4	2.0
87.5°	2.6	2.8	2.3	1.7	1.5	1.6	1.7	1.6	1.4
90°	0.4	0.7	1.0	0.9	0.7	1.2	1.1	0.7	0.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	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°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)