

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: E395323

Luminaire Tested: **L1751**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395323
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L1751
Description: HALO TRAC - WALL WASH, BLACK LOUVER
Light Source: 150A21, 2860 LUMENS
Ballast/Driver: -

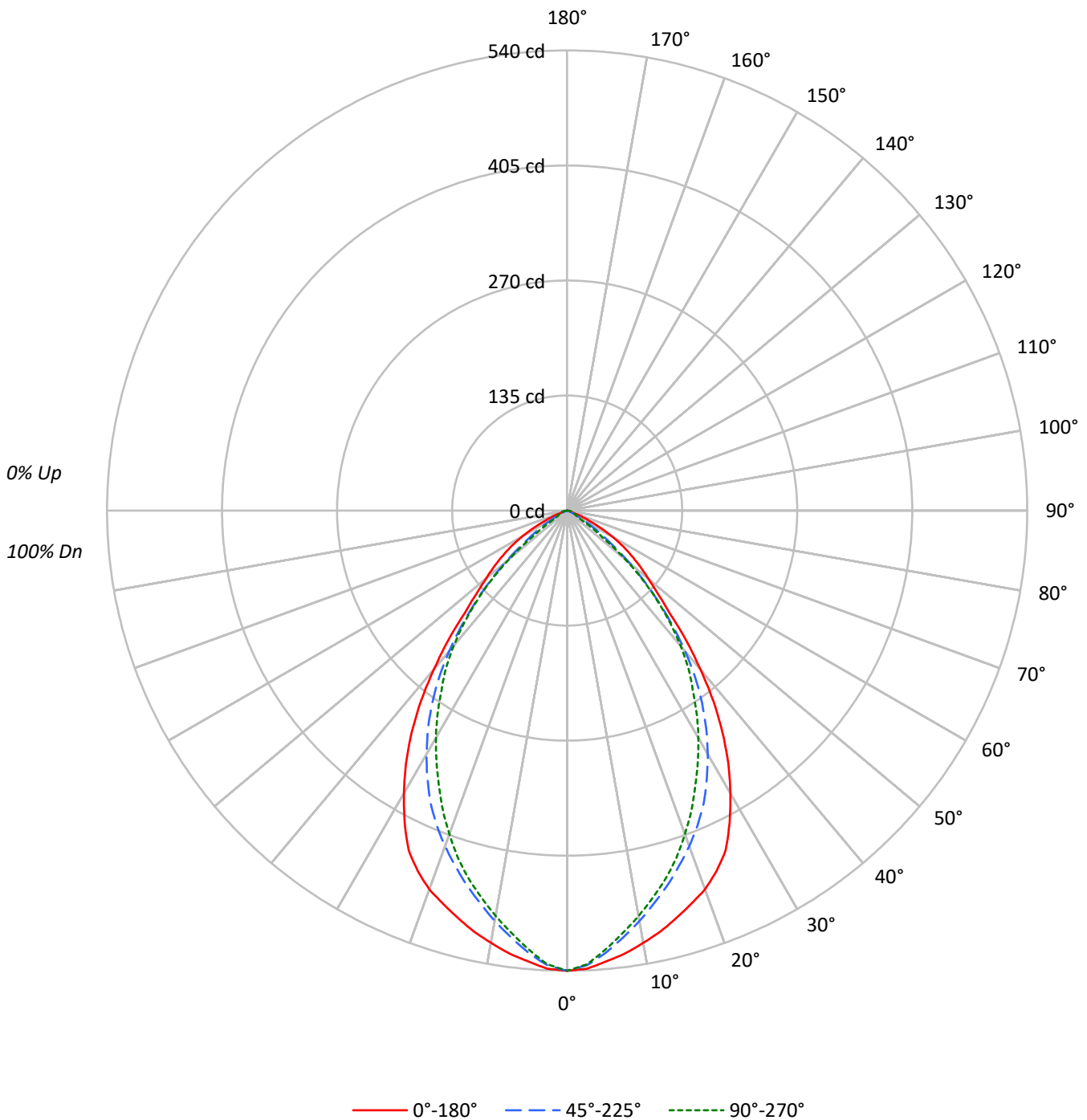
Summary

Lumens per Lamp: 2860 (1 lamp)
Luminaire Lumens: 711.7 lumens
Efficiency: 24.9%
Efficacy: 4.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 0.92 / 1.04
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

TEST NUMBER: E395323
CATALOG NUMBER: L1751

Luminous Intensity Polar Plot





TEST NUMBER: E395323
 CATALOG NUMBER: L1751

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	30	30	30	30	29	29	29	29	28	28	28	26	26	26	25	25	25	25
1	28	27	26	26	27	27	26	25	26	25	25	25	24	24	24	23	23	23
2	26	25	24	23	26	24	23	22	24	23	22	23	22	21	22	21	21	20
3	25	23	21	20	24	22	21	20	22	20	19	21	20	19	20	20	19	18
4	23	21	19	18	22	20	19	18	20	19	18	19	18	17	19	18	17	17
5	22	19	17	16	21	19	17	16	18	17	16	18	17	16	17	16	16	15
6	20	18	16	15	20	17	16	14	17	15	14	17	15	14	16	15	14	14
7	19	16	14	13	19	16	14	13	16	14	13	15	14	13	15	14	13	13
8	18	15	13	12	18	15	13	12	15	13	12	14	13	12	14	13	12	12
9	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	12	11	11
10	16	13	11	10	16	13	11	10	13	11	10	13	11	10	12	11	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°			



TEST NUMBER: E395323
 CATALOG NUMBER: L1751

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	48.9	6.9	1.7
10°-20°	129.6	18.2	4.5
20°-30°	175.7	24.7	6.1
30°-40°	172.2	24.2	6.0
40°-50°	118.8	16.7	4.2
50°-60°	49.5	7.0	1.7
60°-70°	13.4	1.9	0.5
70°-80°	2.7	0.4	0.1
80°-90°	0.9	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°	354.2	49.8	12.4
0°-40°	526.4	74.0	18.4
0°-60°	694.7	97.6	24.3
0°-90°	711.7	100.0	24.9
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°	711.7	100.0	24.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	540	540	540	540	540	
5°	531	521	517	521	531	50
15°	495	455	447	455	495	140
25°	440	379	356	379	440	200
35°	318	276	257	276	318	197
45°	170	152	150	152	170	135
55°	92	49	34	49	92	82
65°	29	6	10	6	29	31
75°	4	2	6	2	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: E395323
 CATALOG NUMBER: L1751

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	540	540	540	540	540	540	540	540	540	540	540
2.5°	538	537	537	535	535	534	533	533	532	532	533
5°	531	531	529	525	523	521	519	518	517	516	517
7.5°	524	522	519	513	509	505	503	501	500	500	500
10°	515	513	506	499	493	489	485	483	483	483	483
12.5°	506	503	494	486	477	472	467	466	465	466	465
15°	495	492	481	471	462	455	449	447	447	447	447
17.5°	484	481	468	455	446	437	431	427	425	426	427
20°	473	468	454	439	427	419	413	405	403	404	404
22.5°	458	452	436	421	409	400	390	383	379	380	381
25°	440	431	415	401	390	379	366	359	354	356	356
27.5°	413	407	390	378	368	355	343	335	331	331	332
30°	383	377	361	350	341	330	320	311	307	306	308
32.5°	352	344	329	318	310	304	297	287	280	282	283
35°	318	309	293	285	278	276	271	263	257	258	257
37.5°	282	274	259	250	246	247	244	240	233	232	234
40°	243	236	223	215	214	215	218	214	206	205	207
42.5°	207	198	187	181	178	183	189	187	180	178	179
45°	170	165	154	148	146	152	159	158	151	149	150
47.5°	144	139	125	117	117	123	127	129	122	119	121
50°	124	117	103	94	91	95	97	98	92	88	89
52.5°	108	101	87	75	69	69	70	66	60	56	57
55°	92	86	73	61	53	49	39	41	35	32	34
57.5°	77	71	59	48	41	34	27	21	13	15	17
60°	61	55	45	38	31	21	14	8	8	12	13
65°	29	26	21	19	12	6	5	5	5	8	10
70°	8	6	5	4	3	3	3	3	4	6	8
75°	4	3	3	2	2	2	2	2	2	3	6
80°	2	2	1	1	1	1	1	1	1	2	4
85°	1	1	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: E395323
 CATALOG NUMBER: L1751

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	540	540	540	540	540	540	540	540	540	540
2.5°	532	532	533	533	534	535	535	537	537	538
5°	516	517	518	519	521	523	525	529	531	531
7.5°	500	500	501	503	505	509	513	519	522	524
10°	483	483	483	485	489	493	499	506	513	515
12.5°	466	465	466	467	472	477	486	494	503	506
15°	447	447	447	449	455	462	471	481	492	495
17.5°	426	425	427	431	437	446	455	468	481	484
20°	404	403	405	413	419	427	439	454	468	473
22.5°	380	379	383	390	400	409	421	436	452	458
25°	356	354	359	366	379	390	401	415	431	440
27.5°	331	331	335	343	355	368	378	390	407	413
30°	306	307	311	320	330	341	350	361	377	383
32.5°	282	280	287	297	304	310	318	329	344	352
35°	258	257	263	271	276	278	285	293	309	318
37.5°	232	233	240	244	247	246	250	259	274	282
40°	205	206	214	218	215	214	215	223	236	243
42.5°	178	180	187	189	183	178	181	187	198	207
45°	149	151	158	159	152	146	148	154	165	170
47.5°	119	122	129	127	123	117	117	125	139	144
50°	88	92	98	97	95	91	94	103	117	124
52.5°	56	60	66	70	69	69	75	87	101	108
55°	32	35	41	39	49	53	61	73	86	92
57.5°	15	13	21	27	34	41	48	59	71	77
60°	12	8	8	14	21	31	38	45	55	61
65°	8	5	5	5	6	12	19	21	26	29
70°	6	4	3	3	3	3	4	5	6	8
75°	3	2	2	2	2	2	2	3	3	4
80°	2	1	1	1	1	1	1	1	2	2
85°	1	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)