

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: H20058

Luminaire Tested: **L3218EP-LVR3218MB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20058
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3218EP-LVR3218MB
Description: HALO 14" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR WITH BLACK LOUVER
Light Source: (2) 18W TT 18 WATTS 1250 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

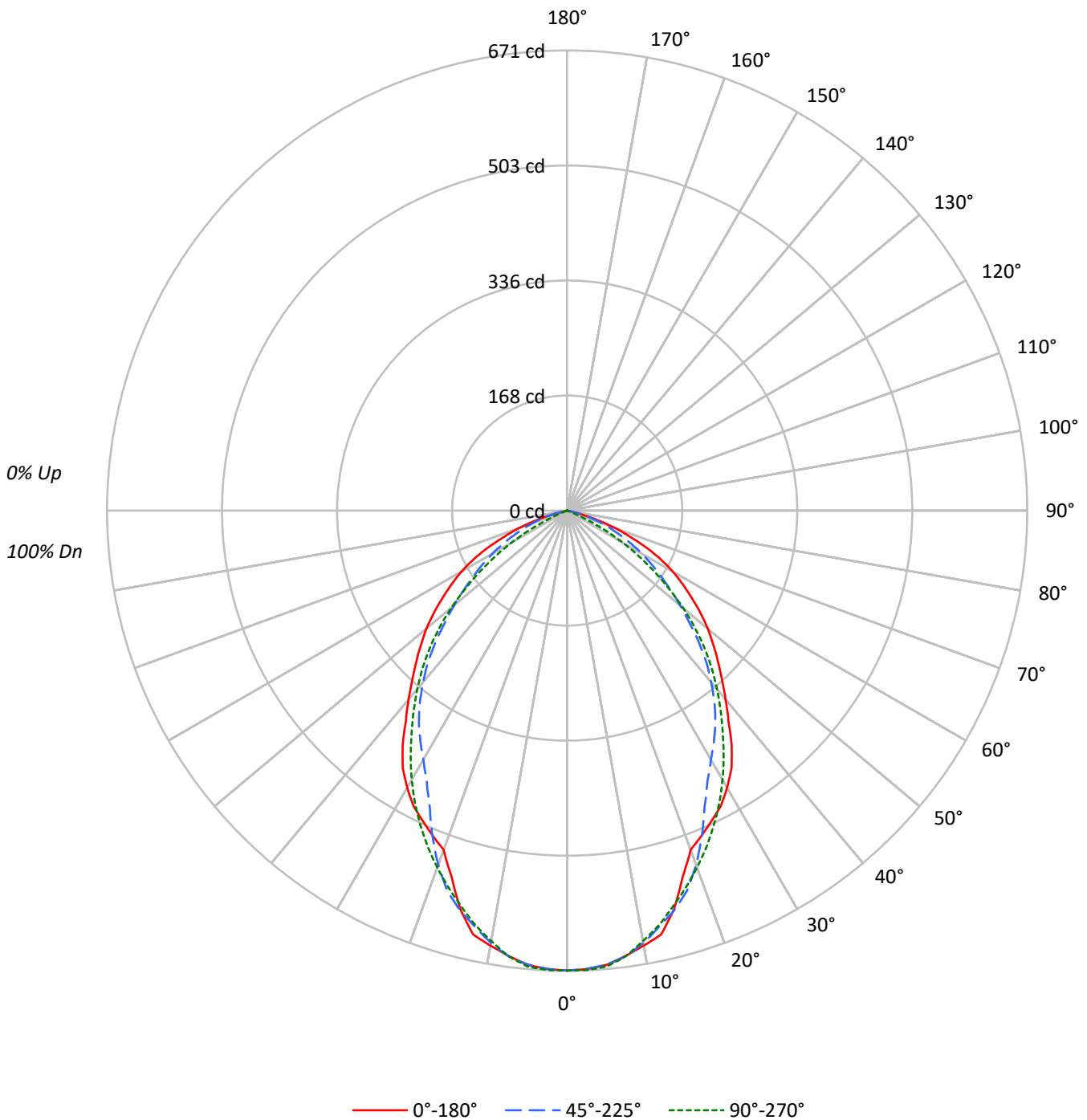
Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1177.8 lumens
Efficiency: 47.1%
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.04 / 1.11
Luminous Opening: Rectangular (W 1.2' x L: 0.47' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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	56	56	56	56	55	55	55	55	52	52	52	50	50	50	48	48	48	47
1	52	51	49	48	51	50	48	47	48	46	45	46	45	44	44	43	43	42
2	49	45	43	41	47	44	42	40	43	41	39	41	40	38	40	39	37	37
3	45	41	37	35	44	40	37	35	39	36	34	37	35	33	36	34	33	32
4	42	37	33	30	41	36	33	30	35	32	30	34	31	29	33	31	29	28
5	39	33	30	27	38	33	29	27	32	29	26	31	28	26	30	28	26	25
6	36	30	27	24	35	30	26	24	29	26	24	28	26	23	28	25	23	22
7	33	28	24	21	33	27	24	21	27	24	21	26	23	21	25	23	21	20
8	31	26	22	19	31	25	22	19	25	21	19	24	21	19	24	21	19	18
9	29	24	20	18	29	23	20	18	23	20	18	22	20	17	22	19	17	17
10	28	22	18	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12802	12802	12802
5°	12736	12727	12780
10°	12482	12405	12352
15°	11890	11922	11800
20°	10693	11166	11248
25°	10506	9990	10660
30°	10280	9242	9990
35°	9746	8781	9212
40°	8959	8142	8468
45°	8391	7322	7646
50°	7948	6395	6553
55°	7370	5550	5181
60°	6802	4802	3584
65°	5699	3915	1599
70°	4174	2969	156
75°	1526	1703	125
80°	99	374	99
85°	66	109	66



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.7	5.3	2.5
10°-20°	168.0	14.3	6.7
20°-30°	226.6	19.2	9.1
30°-40°	244.3	20.7	9.8
40°-50°	215.2	18.3	8.6
50°-60°	158.3	13.4	6.3
60°-70°	83.1	7.1	3.3
70°-80°	18.9	1.6	0.8
80°-90°	0.6	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°	0.1	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°	457.3	38.8	18.3
0°-40°	701.6	59.6	28.1
0°-60°	1075.0	91.3	43.0
0°-90°	1177.6	100.0	47.1
90°-120°	0.1	0.0	0.0
90°-150°	0.2	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1177.8	100.0	47.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	665	664	664	666	667	63
15°	602	609	603	596	597	167
25°	499	484	474	506	506	230
35°	418	401	377	387	395	260
45°	311	286	271	260	283	241
55°	222	197	167	155	156	199
65°	126	110	87	56	35	124
75°	21	24	23	3	2	29
85°	0	0	0	0	0	0
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°	670.8	670.8	670.8	670.8	670.8
2.5°	669.0	668.4	668.8	670.3	670.4
5°	664.8	664.0	664.3	665.9	667.1
7.5°	654.8	654.1	655.8	654.7	655.4
10°	644.1	643.3	640.1	638.1	637.4
12.5°	633.3	632.6	621.4	618.1	619.0
15°	601.8	608.9	603.4	596.2	597.2
17.5°	560.1	571.7	581.2	573.2	575.9
20°	526.5	527.8	549.8	550.3	553.8
22.5°	512.8	501.0	513.4	528.0	530.9
25°	498.9	483.5	474.4	505.5	506.2
27.5°	485.4	466.2	443.6	481.3	480.4
30°	466.5	447.5	419.4	451.7	453.3
32.5°	445.8	424.1	398.2	420.1	424.7
35°	418.3	400.6	376.9	386.8	395.4
37.5°	386.3	370.9	352.8	350.5	367.5
40°	359.6	340.1	326.8	317.7	339.9
42.5°	333.9	312.8	300.6	287.3	312.2
45°	310.9	286.4	271.3	259.8	283.3
47.5°	289.0	263.4	241.6	232.6	252.5
50°	267.7	242.0	215.4	208.6	220.7
52.5°	245.0	219.6	189.6	182.0	186.8
55°	221.5	197.3	166.8	154.8	155.7
57.5°	199.5	174.5	145.9	127.2	124.3
60°	178.2	153.6	125.8	101.0	93.9
62.5°	153.6	132.0	105.9	77.1	63.5
65°	126.2	110.5	86.7	55.5	35.4
67.5°	98.1	86.3	68.6	36.1	10.5
70°	74.8	63.6	53.2	18.9	2.8
72.5°	48.3	46.8	36.3	7.8	2.2
75°	20.7	24.1	23.1	2.6	1.7
77.5°	2.8	6.4	11.7	1.3	1.3
80°	0.9	1.0	3.4	1.0	0.9
82.5°	0.6	0.7	0.7	0.7	0.6
85°	0.3	0.4	0.5	0.5	0.3
87.5°	0.1	0.2	0.3	0.3	0.2
90°	0.0	0.1	0.2	0.1	0.0
92.5°	0.0	0.1	0.1	0.1	0.0
95°	0.0	0.0	0.1	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.1	0.0	0.0
102.5°	0.0	0.0	0.1	0.0	0.0
105°	0.0	0.0	0.1	0.0	0.0
107.5°	0.0	0.0	0.1	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°	0.1	0.0	0.0	0.0	0.0
117.5°	0.1	0.0	0.1	0.0	0.1
120°	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.1	0.1	0.1
125°	0.2	0.2	0.2	0.2	0.2
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)