

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: H20063

Luminaire Tested: **L3239EP-LVR3239P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20063
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3239EP-LVR3239P
Description: HALO 18" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR WITH WHITE LOUVER
Light Source: (2) 39W TT 18 WATTS 2850 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

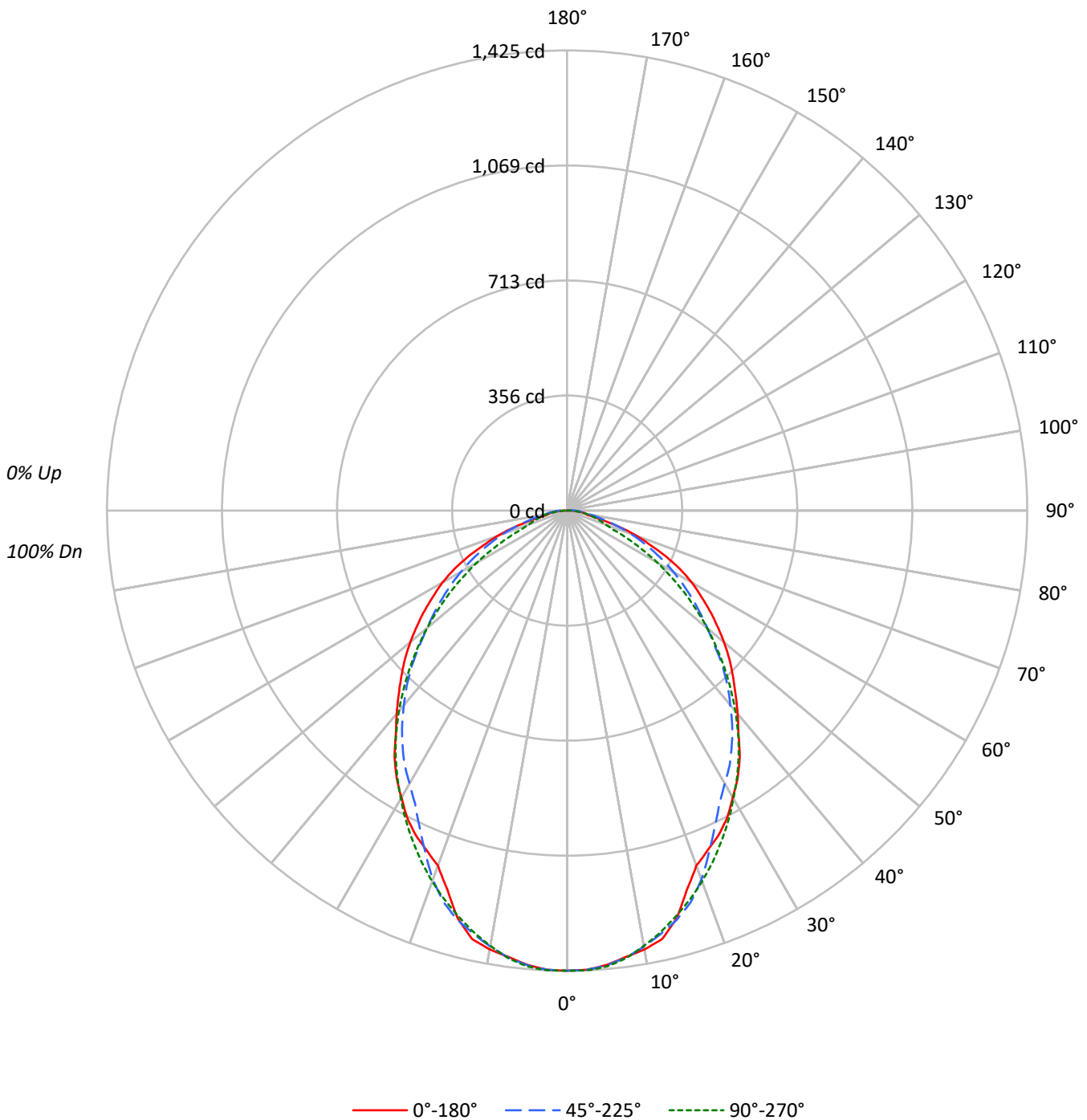
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3001.2 lumens
Efficiency: 52.7%
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.1 / 1.18
Luminous Opening: Rectangular (W 1.52' x L: 0.47' x H: 0')
CIE Type: Direct

Input Watts (W): 64
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	63	63	63	63	61	61	61	61	58	58	58	56	56	56	54	54	54	53
1	58	56	53	52	56	54	52	51	52	51	49	50	49	48	48	47	46	45
2	53	49	46	43	52	48	45	43	46	44	42	45	42	41	43	41	40	39
3	49	44	40	37	47	43	39	36	41	38	36	40	37	35	38	36	34	33
4	45	39	35	31	44	38	34	31	37	34	31	36	33	30	35	32	30	29
5	42	35	31	27	40	35	30	27	33	30	27	32	29	27	32	29	26	25
6	39	32	27	24	38	31	27	24	30	27	24	30	26	24	29	26	24	22
7	36	29	25	22	35	29	25	22	28	24	21	27	24	21	26	23	21	20
8	33	27	22	19	33	26	22	19	26	22	19	25	22	19	24	21	19	18
9	31	25	20	18	31	24	20	18	24	20	18	23	20	17	23	20	17	16
10	29	23	19	16	29	23	19	16	22	18	16	22	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21471	21471	21471
5°	21356	21386	21432
10°	21113	20976	20945
15°	20403	20465	20294
20°	18760	19497	19594
25°	18437	17971	18786
30°	17850	16980	17920
35°	17143	16352	17032
40°	16148	15460	15932
45°	15470	14489	14681
50°	14861	13291	13291
55°	14133	12373	11637
60°	13440	11451	9733
65°	12086	10410	7416
70°	10132	9251	5551
75°	6404	7568	5472
80°	4946	6421	5380
85°	6396	7779	5359



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	133.6	4.5	2.3
10°-20°	366.1	12.2	6.4
20°-30°	510.1	17.0	8.9
30°-40°	569.2	19.0	10.0
40°-50°	531.4	17.7	9.3
50°-60°	430.8	14.4	7.6
60°-70°	282.1	9.4	4.9
70°-80°	126.7	4.2	2.2
80°-90°	43.8	1.5	0.8
90°-100°	7.1	0.2	0.1
100°-110°	0.2	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°	1009.8	33.6	17.7
0°-40°	1579.0	52.6	27.7
0°-60°	2541.2	84.7	44.6
0°-90°	2993.9	99.8	52.5
90°-120°	7.3	0.2	0.1
90°-150°	7.3	0.2	0.1
90°-180°	7.0	0.2	0.1
0°-180°	3001.2	100.0	52.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1412	1412	1414	1417	1417	134
15°	1308	1318	1312	1299	1301	363
25°	1109	1096	1081	1134	1130	509
35°	932	925	889	912	926	580
45°	726	712	680	655	689	561
55°	538	522	471	443	443	481
65°	339	337	292	238	208	334
75°	110	129	130	97	94	130
85°	37	45	45	35	31	35
90°	4	24	25	14	4	4
95°	0	9	9	2	1	0
105°	0	1	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°	1425	1425	1425	1425	1425
2.5°	1423	1423	1423	1424	1425
5°	1412	1412	1414	1417	1417
7.5°	1394	1396	1396	1397	1398
10°	1380	1379	1371	1369	1369
12.5°	1359	1361	1342	1335	1337
15°	1308	1318	1312	1299	1301
17.5°	1232	1251	1272	1260	1263
20°	1170	1179	1216	1221	1222
22.5°	1138	1129	1147	1179	1178
25°	1109	1096	1081	1134	1130
27.5°	1073	1060	1021	1086	1082
30°	1026	1018	976	1032	1030
32.5°	983	969	936	974	979
35°	932	925	889	912	926
37.5°	871	871	840	845	870
40°	821	811	786	778	810
42.5°	772	761	735	713	750
45°	726	712	680	655	689
47.5°	681	665	620	600	627
50°	634	618	567	550	567
52.5°	585	571	518	498	504
55°	538	522	471	443	443
57.5°	490	475	425	388	381
60°	446	428	380	337	323
62.5°	396	384	336	287	263
65°	339	337	292	238	208
67.5°	279	281	250	193	155
70°	230	229	210	152	126
72.5°	174	185	167	119	109
75°	110	129	130	97	94
77.5°	67	85	100	81	78
80°	57	63	74	64	62
82.5°	54	57	57	49	47
85°	37	45	45	35	31
87.5°	19	33	34	23	16
90°	4	24	25	14	4
92.5°	0	16	16	6	1
95°	0	9	9	2	1
97.5°	0	5	4	1	1
100°	0	1	1	0	0
102.5°	0	0	1	0	0
105°	0	1	0	0	0
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)