

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: H20054

Luminaire Tested: **L3232EP-LVR3232P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20054
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3232EP-LVR3232P
Description: HALO 16" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR WITH WHITE LOUVER
Light Source: (2) 32W PLT 32 WATTS 2400 LUMENS EACH
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

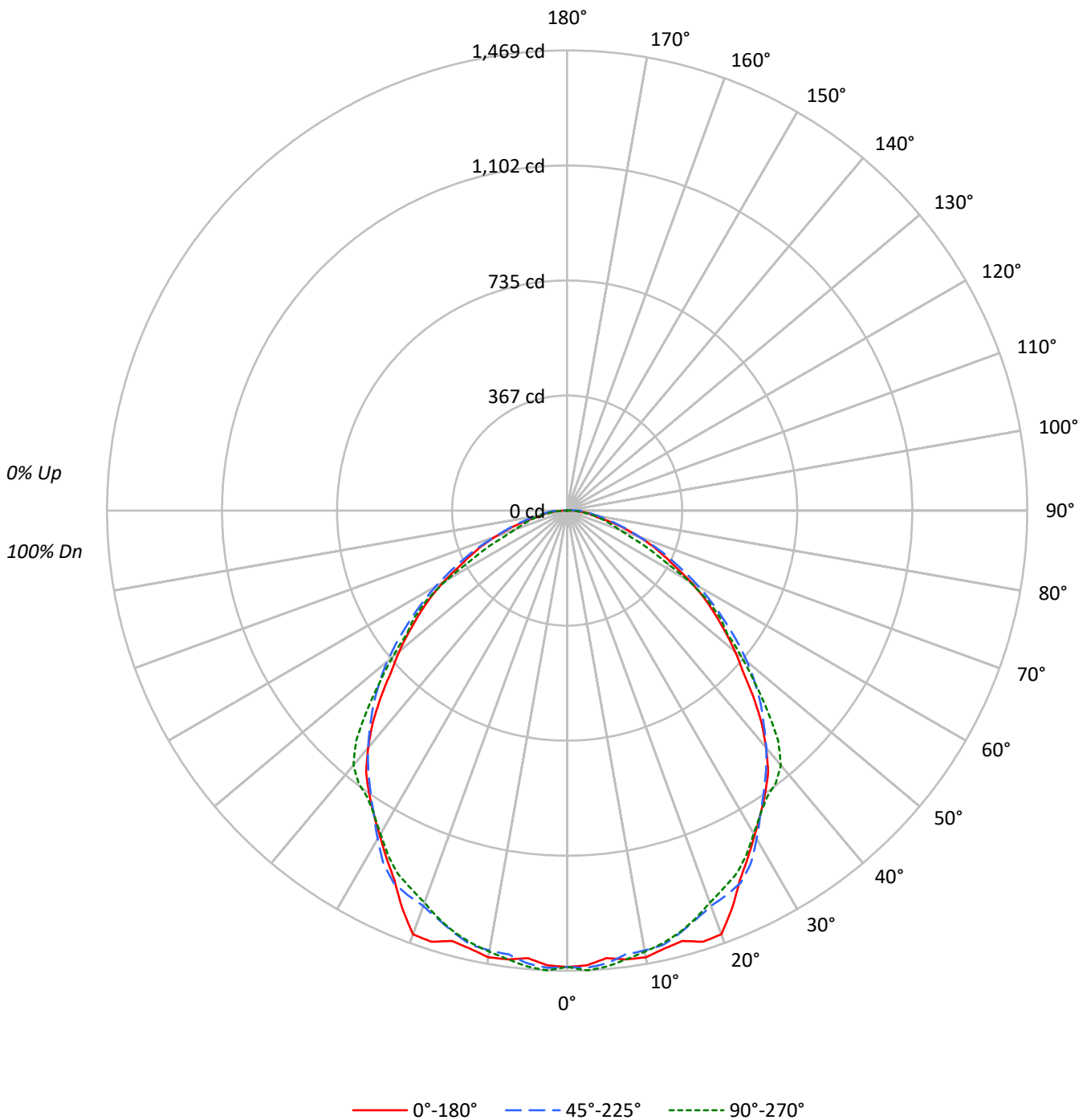
Summary

Lumens per Lamp: 2400 (2 lamps)
Luminaire Lumens: 3603.0 lumens
Efficiency: 75.1%
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.36' x L: 0.47' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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	50	30	10	0	
RCR																						
0	89	89	89	89	87	87	87	87	83	83	83	80	80	80	76	76	76	75				
1	82	79	76	73	80	77	74	72	74	72	70	71	69	68	68	67	66	64				
2	75	70	65	61	73	68	64	60	65	62	59	63	60	57	61	58	56	54				
3	69	62	56	51	67	60	55	51	58	54	50	56	52	49	54	51	48	47				
4	64	55	49	44	62	54	48	44	52	47	43	50	46	42	49	45	42	40				
5	59	49	43	38	57	49	43	38	47	42	38	45	41	37	44	40	37	35				
6	54	45	38	34	53	44	38	33	43	37	33	41	37	33	40	36	33	31				
7	50	41	34	30	49	40	34	30	39	33	30	38	33	29	37	32	29	28				
8	47	37	31	27	46	37	31	27	36	30	26	35	30	26	34	29	26	25				
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22				
10	41	32	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24535	24535	24535
5°	24240	24528	24697
10°	24760	24384	24452
15°	24791	24320	24285
20°	25787	24067	23870
25°	24210	24359	23764
30°	23275	23528	23159
35°	22654	22510	22901
40°	21719	21741	23324
45°	20005	20814	21529
50°	18339	19648	19046
55°	16911	17997	17469
60°	15324	16334	15021
65°	13588	14384	11356
70°	11964	12112	8616
75°	9825	10540	8133
80°	7467	9795	8146
85°	9274	11979	7922



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	137.9	3.8	2.9
10°-20°	395.9	11.0	8.2
20°-30°	595.5	16.5	12.4
30°-40°	689.8	19.1	14.4
40°-50°	675.4	18.7	14.1
50°-60°	536.2	14.9	11.2
60°-70°	341.6	9.5	7.1
70°-80°	161.1	4.5	3.4
80°-90°	59.7	1.7	1.2
90°-100°	9.5	0.3	0.2
100°-110°	0.5	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°	1129.2	31.3	23.5
0°-40°	1819.0	50.5	37.9
0°-60°	3030.6	84.1	63.1
0°-90°	3593.0	99.7	74.9
90°-120°	10.0	0.3	0.2
90°-150°	10.0	0.3	0.2
90°-180°	10.0	0.3	0.2
0°-180°	3603.0	100.0	75.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1434	1443	1451	1459	1461	138
15°	1422	1411	1395	1375	1393	407
25°	1303	1311	1311	1271	1279	604
35°	1102	1100	1095	1099	1114	688
45°	840	877	874	896	904	648
55°	576	602	613	595	595	515
65°	341	349	361	345	285	340
75°	151	162	162	132	125	160
85°	48	62	62	48	41	46
90°	4	32	34	19	3	4
95°	0	13	13	2	1	0
105°	1	1	1	0	0	1
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°	1457	1457	1457	1457	1457
2.5°	1453	1455	1461	1465	1469
5°	1434	1443	1451	1459	1461
7.5°	1445	1447	1429	1438	1445
10°	1448	1454	1426	1417	1430
12.5°	1432	1434	1420	1394	1414
15°	1422	1411	1395	1375	1393
17.5°	1443	1411	1368	1355	1365
20°	1439	1416	1343	1326	1332
22.5°	1375	1381	1329	1297	1305
25°	1303	1311	1311	1271	1279
27.5°	1249	1248	1270	1239	1239
30°	1197	1194	1210	1194	1191
32.5°	1149	1146	1148	1146	1148
35°	1102	1100	1095	1099	1114
37.5°	1054	1054	1043	1055	1095
40°	988	1004	989	1011	1061
42.5°	918	945	930	960	997
45°	840	877	874	896	904
47.5°	761	805	813	817	812
50°	700	736	750	736	727
52.5°	636	670	682	660	644
55°	576	602	613	595	595
57.5°	518	540	548	533	530
60°	455	476	485	472	446
62.5°	391	411	420	407	349
65°	341	349	361	345	285
67.5°	294	301	305	285	217
70°	243	252	246	225	175
72.5°	195	206	202	169	149
75°	151	162	162	132	125
77.5°	102	119	128	106	103
80°	77	91	101	87	84
82.5°	72	78	79	67	62
85°	48	62	62	48	41
87.5°	24	45	47	31	21
90°	4	32	34	19	3
92.5°	0	22	22	8	1
95°	0	13	13	2	1
97.5°	0	6	5	0	1
100°	0	2	1	0	1
102.5°	1	0	1	0	1
105°	1	1	1	0	0
107.5°	0	1	0	0	0
110°	0	1	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)