

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: H20052

Luminaire Tested: **L3232EP-LVR3232SC**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20052
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3232EP-LVR3232SC
Description: HALO 16" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR AND LOUVER
Light Source: (2) 32W PLT 32 WATTS 2400 LUMENS EACH
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

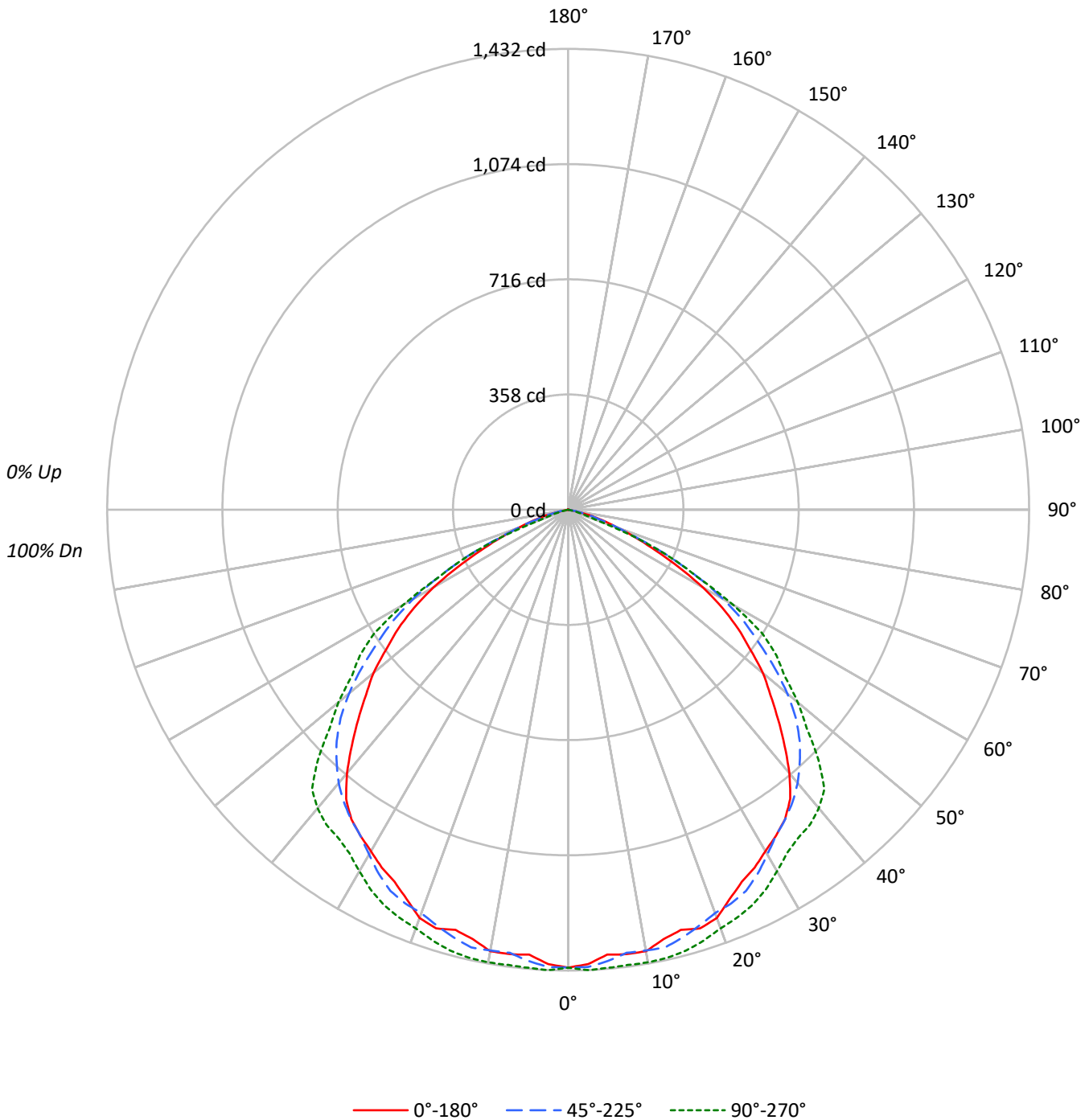
Summary

Lumens per Lamp: 2400 (2 lamps)
Luminaire Lumens: 3707.2 lumens
Efficiency: 77.2%
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.35 / 1.42
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 (A_{in}): 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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				77
1	85	82	79	77	83	81	78	76	77	75	73	74	73	71	72	70	69				68	
2	78	73	68	64	76	71	67	63	69	65	62	66	63	61	64	61	59				58	
3	72	64	59	54	70	63	58	54	61	57	53	59	55	52	57	54	51				49	
4	66	57	51	46	64	56	51	46	55	49	45	53	48	45	51	47	44				43	
5	61	51	45	40	59	51	44	40	49	44	39	48	43	39	46	42	39				37	
6	56	46	40	35	55	46	39	35	44	39	35	43	38	34	42	37	34				33	
7	52	42	36	31	51	41	35	31	40	35	31	39	34	30	38	34	30				29	
8	48	38	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27				26	
9	45	35	29	25	44	35	29	25	34	28	25	33	28	25	32	28	24				23	
10	42	32	27	23	41	32	26	22	31	26	22	31	26	22	30	25	22				21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23963	23963	23963
5°	23463	23801	24156
10°	23820	23785	24418
15°	23570	23989	24721
20°	24193	23906	24802
25°	23709	24285	25177
30°	23820	24053	25220
35°	24134	24155	25594
40°	23499	24379	26621
45°	21957	24220	26196
50°	20696	23290	24390
55°	18937	21285	23194
60°	16267	18793	19972
65°	11954	14026	13946
70°	8124	7976	4382
75°	5075	4424	1692
80°	388	1261	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	134.3	3.6	2.8
10°-20°	389.5	10.5	8.1
20°-30°	602.3	16.2	12.5
30°-40°	742.7	20.0	15.5
40°-50°	771.7	20.8	16.1
50°-60°	640.8	17.3	13.3
60°-70°	351.1	9.5	7.3
70°-80°	73.3	2.0	1.5
80°-90°	1.4	0.0	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°	1126.1	30.4	23.5
0°-40°	1868.8	50.4	38.9
0°-60°	3281.3	88.5	68.4
0°-90°	3707.1	100.0	77.2
90°-120°	0.0	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	3707.2	100.0	77.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1388	1397	1408	1421	1429	133
15°	1352	1352	1376	1383	1418	386
25°	1276	1279	1307	1323	1355	592
35°	1174	1175	1175	1189	1245	729
45°	922	963	1017	1032	1100	713
55°	645	672	725	763	790	572
65°	300	310	352	423	350	305
75°	78	79	68	38	26	80
85°	0	0	0	0	0	1
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°	1	1	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°	1423	1423	1423	1423	1423
2.5°	1413	1415	1422	1429	1432
5°	1388	1397	1408	1421	1429
7.5°	1393	1396	1389	1411	1427
10°	1393	1401	1391	1402	1428
12.5°	1367	1377	1393	1392	1426
15°	1352	1352	1376	1383	1418
17.5°	1364	1352	1355	1375	1403
20°	1350	1350	1334	1357	1384
22.5°	1310	1323	1324	1341	1372
25°	1276	1279	1307	1323	1355
27.5°	1254	1253	1275	1298	1330
30°	1225	1227	1237	1264	1297
32.5°	1201	1200	1201	1226	1265
35°	1174	1175	1175	1189	1245
37.5°	1133	1143	1145	1151	1234
40°	1069	1096	1109	1116	1211
42.5°	995	1033	1065	1075	1178
45°	922	963	1017	1032	1100
47.5°	852	893	959	969	1005
50°	790	825	889	896	931
52.5°	712	755	809	826	846
55°	645	672	725	763	790
57.5°	568	596	648	696	713
60°	483	506	558	622	593
62.5°	388	408	455	534	452
65°	300	310	352	423	350
67.5°	226	232	240	321	234
70°	165	170	162	215	89
72.5°	115	121	108	115	54
75°	78	79	68	38	26
77.5°	28	37	35	12	5
80°	4	9	13	7	0
82.5°	1	2	2	1	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	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°	1	1	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)