

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: H20048

Luminaire Tested: **L3240EP-LVR3240SC**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H20048  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L3240EP-LVR3240SC  
Description: HALO 24" RECTANGULAR TRACK FIXTURE  
SPECULAR REFLECTOR AND LOUVER  
Light Source: (2) F40TT 40 WATTS 3150 LUMENS EACH  
TWIN TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

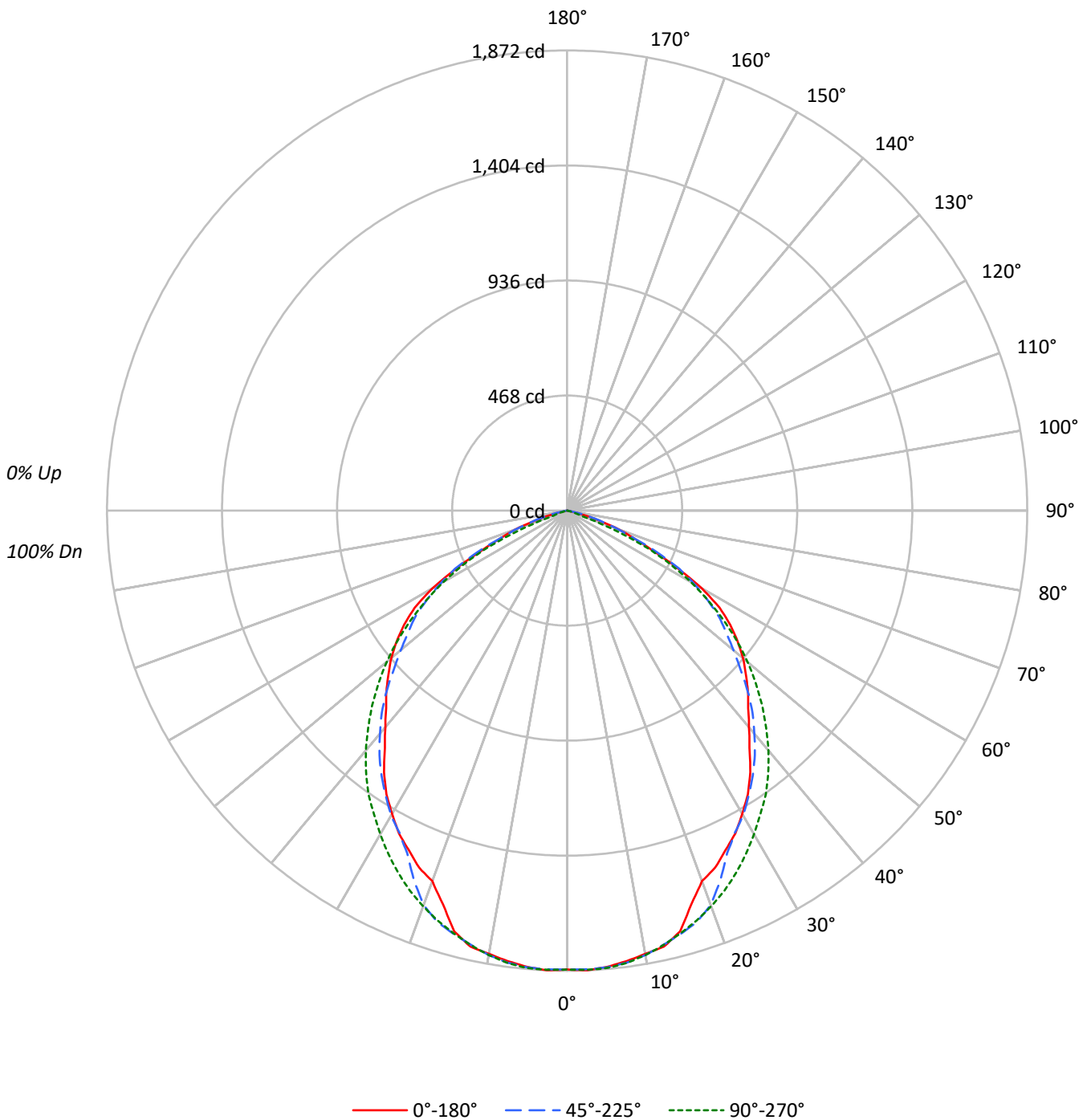
**Summary**

Lumens per Lamp: 3150 (2 lamps)  
Luminaire Lumens: 4201.9 lumens  
Efficiency: 66.7%  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.21 / 1.27  
Luminous Opening: Rectangular (W 2.01' x L: 0.47' x H: 0')  
CIE Type: Direct

Input Watts (W): 60  
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	79	79	79	79	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	74	71	69	67	72	70	68	66	67	65	64	64	63	62	62	61	60	59
2	68	63	59	56	66	62	58	55	60	57	54	58	55	53	56	54	52	50
3	62	56	51	48	61	55	51	47	53	49	46	51	48	46	50	47	45	43
4	58	50	45	41	56	49	44	41	48	43	40	46	43	40	45	42	39	38
5	53	45	40	36	52	44	39	35	43	39	35	42	38	35	41	37	34	33
6	49	41	35	31	48	40	35	31	39	34	31	38	34	31	37	33	30	29
7	46	37	32	28	45	37	31	28	36	31	28	35	31	27	34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25	32	28	25	31	27	24	23
9	40	31	26	23	39	31	26	23	30	26	22	30	25	22	29	25	22	21
10	37	29	24	21	37	29	24	21	28	24	20	27	23	20	27	23	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21273	21273	21273
5°	21308	21331	21365
10°	21184	21242	21242
15°	20914	21032	21009
20°	19449	20698	20771
25°	19160	19348	20442
30°	18735	18840	19998
35°	18068	18319	19598
40°	17120	17625	18949
45°	16758	16742	18079
50°	16556	15652	16999
55°	16091	14998	15415
60°	14402	13604	13217
65°	10272	10946	9679
70°	7362	7162	1899
75°	3214	4094	704
80°	197	787	66
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	177.0	4.2	2.8
10°-20°	499.8	11.9	7.9
20°-30°	723.7	17.2	11.5
30°-40°	836.5	19.9	13.3
40°-50°	811.4	19.3	12.9
50°-60°	686.0	16.3	10.9
60°-70°	385.5	9.2	6.1
70°-80°	80.9	1.9	1.3
80°-90°	1.1	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°	0.0	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°	1400.5	33.3	22.2
0°-40°	2236.9	53.2	35.5
0°-60°	3734.4	88.9	59.3
0°-90°	4201.9	100.0	66.7
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°	4201.9	100.0	66.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1863	1859	1865	1868	1868	177
15°	1773	1790	1783	1782	1781	492
25°	1524	1529	1539	1628	1626	702
35°	1299	1309	1317	1393	1409	809
45°	1040	1028	1039	1057	1122	803
55°	810	801	755	746	776	716
65°	381	402	406	371	359	396
75°	73	86	93	35	16	89
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°	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°	1867	1867	1867	1867	1867
2.5°	1872	1866	1868	1869	1870
5°	1863	1859	1865	1868	1868
7.5°	1849	1848	1855	1857	1856
10°	1831	1830	1836	1837	1836
12.5°	1817	1815	1809	1812	1810
15°	1773	1790	1783	1782	1781
17.5°	1679	1718	1755	1750	1749
20°	1604	1623	1707	1712	1713
22.5°	1573	1573	1628	1672	1673
25°	1524	1529	1539	1628	1626
27.5°	1481	1482	1478	1580	1575
30°	1424	1430	1432	1527	1520
32.5°	1368	1367	1374	1466	1463
35°	1299	1309	1317	1393	1409
37.5°	1218	1235	1254	1307	1344
40°	1151	1158	1185	1218	1274
42.5°	1090	1089	1116	1128	1198
45°	1040	1028	1039	1057	1122
47.5°	986	975	956	984	1041
50°	934	919	883	907	959
52.5°	874	864	815	830	870
55°	810	801	755	746	776
57.5°	735	727	677	663	678
60°	632	633	597	573	580
62.5°	506	520	515	472	475
65°	381	402	406	371	359
67.5°	292	304	295	274	217
70°	221	227	215	177	57
72.5°	142	157	148	100	29
75°	73	86	93	35	16
77.5°	14	28	45	12	5
80°	3	4	12	5	1
82.5°	1	2	1	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°	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)