

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: H20050

Luminaire Tested: **L3240EP-LVR3240P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20050
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3240EP-LVR3240P
Description: HALO 24" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR WITH WHITE LOUVER
Light Source: (2) 40W TT 40 WATTS 3150 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

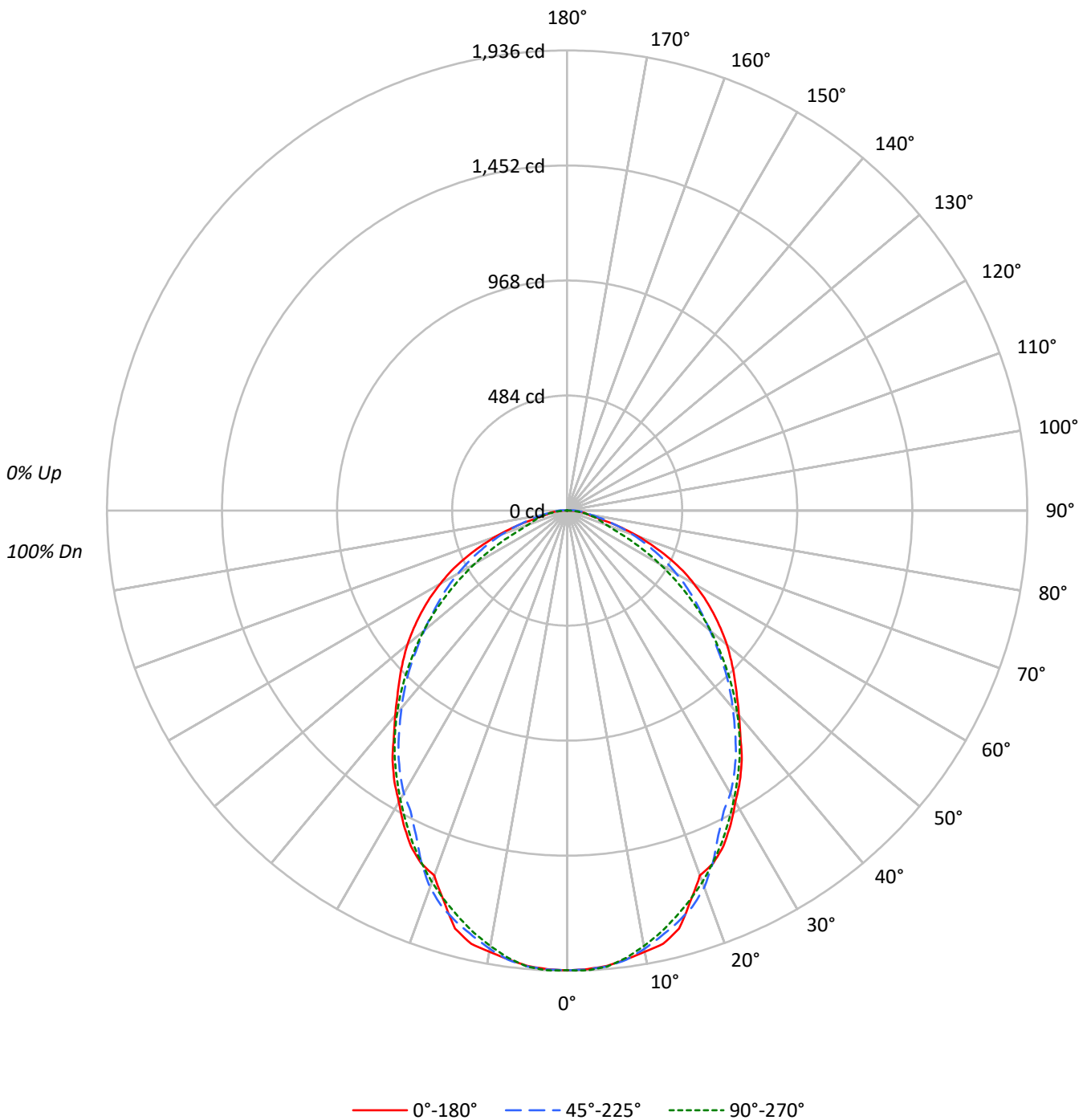
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4151.6 lumens
Efficiency: 65.9%
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.1 / 1.19
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	78	78	78	78	77	77	77	77	73	73	73	70	70	70	67	67	67	66
1	72	69	67	65	71	68	66	64	65	63	62	63	61	60	60	59	58	56
2	66	61	57	54	65	60	56	53	58	55	52	56	53	51	54	52	50	48
3	61	55	50	46	59	54	49	45	52	48	44	50	46	44	48	45	43	41
4	56	49	43	39	55	48	43	39	46	42	38	45	41	38	43	40	37	36
5	52	44	38	34	51	43	38	34	42	37	34	41	37	33	39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28
7	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	26	25
8	42	33	28	24	41	33	28	24	32	27	24	31	27	24	30	27	24	23
9	39	31	26	22	38	30	25	22	30	25	22	29	25	22	28	24	22	20
10	37	28	23	20	36	28	23	20	27	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22036	22036	22036
5°	21994	22017	22029
10°	21809	21670	21520
15°	21480	21162	20867
20°	19813	20455	20164
25°	19574	18921	19361
30°	18630	18077	18459
35°	17818	17220	17596
40°	16733	16123	16555
45°	16049	15066	15340
50°	15546	13897	13986
55°	14899	12972	12276
60°	14037	12078	10255
65°	12752	10973	7819
70°	10660	9728	5797
75°	7132	7968	5767
80°	5446	6758	5643
85°	6798	8105	5491



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	182.0	4.4	2.9
10°-20°	502.8	12.1	8.0
20°-30°	706.0	17.0	11.2
30°-40°	785.5	18.9	12.5
40°-50°	734.7	17.7	11.7
50°-60°	599.7	14.4	9.5
60°-70°	392.9	9.5	6.2
70°-80°	176.9	4.3	2.8
80°-90°	60.6	1.5	1.0
90°-100°	9.5	0.2	0.2
100°-110°	0.8	0.0	0.0
110°-120°	0.1	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°	1390.8	33.5	22.1
0°-40°	2176.3	52.4	34.5
0°-60°	3510.6	84.6	55.7
0°-90°	4141.1	99.7	65.7
90°-120°	10.5	0.3	0.2
90°-150°	10.5	0.3	0.2
90°-180°	11.0	0.3	0.2
0°-180°	4151.6	100.0	65.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1923	1922	1925	1925	1926	182
15°	1821	1826	1794	1773	1769	504
25°	1557	1537	1505	1548	1540	712
35°	1281	1268	1238	1265	1265	797
45°	996	975	935	921	952	770
55°	750	724	653	621	618	670
65°	473	465	407	335	290	466
75°	162	181	181	134	131	186
85°	52	63	62	48	42	49
90°	6	32	34	18	3	5
95°	0	13	13	2	1	0
105°	1	1	1	1	1	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°	1934	1934	1934	1934	1934
2.5°	1931	1931	1932	1934	1936
5°	1923	1922	1925	1925	1926
7.5°	1904	1904	1906	1901	1898
10°	1885	1883	1873	1863	1860
12.5°	1867	1861	1833	1821	1818
15°	1821	1826	1794	1773	1769
17.5°	1724	1748	1749	1720	1718
20°	1634	1645	1687	1666	1663
22.5°	1606	1577	1602	1608	1603
25°	1557	1537	1505	1548	1540
27.5°	1489	1478	1426	1485	1472
30°	1416	1405	1374	1419	1403
32.5°	1352	1333	1309	1344	1334
35°	1281	1268	1238	1265	1265
37.5°	1197	1193	1159	1176	1191
40°	1125	1114	1084	1086	1113
42.5°	1057	1043	1011	999	1035
45°	996	975	935	921	952
47.5°	937	912	855	845	870
50°	877	852	784	773	789
52.5°	814	789	716	698	705
55°	750	724	653	621	618
57.5°	685	660	593	546	534
60°	616	593	530	470	450
62.5°	549	529	470	401	370
65°	473	465	407	335	290
67.5°	394	390	349	271	216
70°	320	318	292	213	174
72.5°	242	253	234	167	149
75°	162	181	181	134	131
77.5°	102	123	138	111	108
80°	83	90	103	88	86
82.5°	75	80	79	67	63
85°	52	63	62	48	42
87.5°	26	45	47	32	21
90°	6	32	34	18	3
92.5°	1	21	22	8	1
95°	0	13	13	2	1
97.5°	0	6	5	1	1
100°	0	2	1	1	1
102.5°	0	0	1	1	1
105°	1	1	1	1	1
107.5°	0	1	1	1	0
110°	0	1	1	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	1	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)