

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: H20049

Luminaire Tested: **L3240EP-LVR3240MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H20049
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L3240EP-LVR3240MB
Description: HALO 24" RECTANGULAR TRACK FIXTURE
SPECULAR REFLECTOR WITH BLACK LOUVER
Light Source: (2) 40W TT 40 WATTS 3150 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

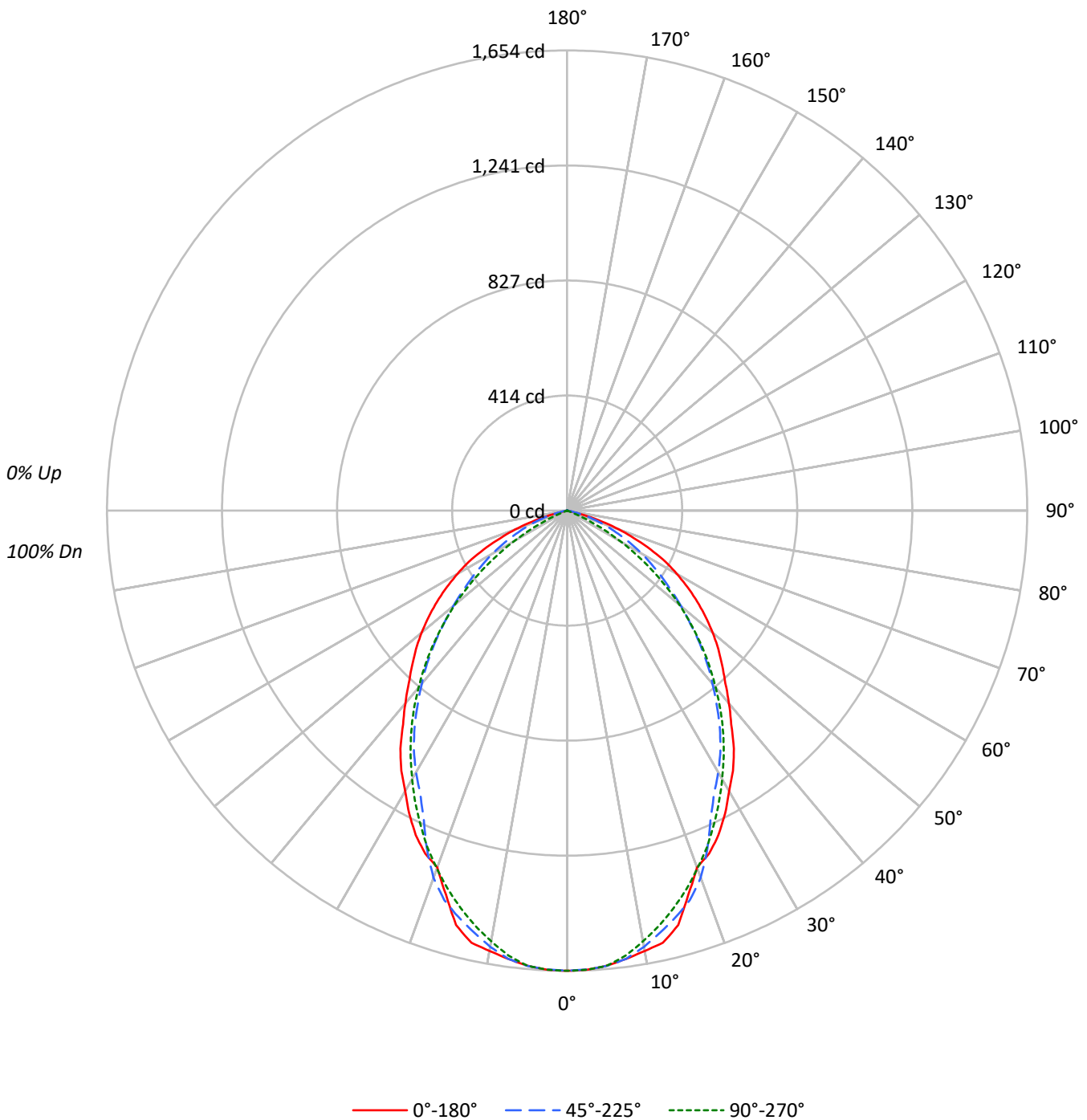
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 2956.0 lumens
Efficiency: 46.9%
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.04 / 1.12
Luminous Opening: Rectangular (W 2.01' x L: 0.47' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	56	56	56	56	55	55	55	55	52	52	52	50	50	50	48	48	48	47				47
1	52	50	49	47	51	49	48	47	47	46	45	46	45	44	44	43	43	42				42
2	48	45	43	40	47	44	42	40	43	41	39	41	40	38	40	39	37	36				36
3	45	41	37	35	44	40	37	34	38	36	34	37	35	33	36	34	33	32				32
4	41	37	33	30	40	36	33	30	35	32	30	34	31	29	33	31	29	28				28
5	38	33	29	27	37	33	29	27	32	29	26	31	28	26	30	28	26	25				25
6	36	30	26	24	35	30	26	24	29	26	23	28	25	23	28	25	23	22				22
7	33	28	24	21	33	27	24	21	27	23	21	26	23	21	25	23	21	20				20
8	31	25	22	19	31	25	22	19	25	21	19	24	21	19	23	21	19	18				18
9	29	24	20	18	29	23	20	18	23	20	18	22	19	17	22	19	17	17				17
10	28	22	18	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18846	18846	18846
5°	18780	18792	18780
10°	18593	18419	18188
15°	18189	17835	17446
20°	16551	17024	16599
25°	16180	15338	15677
30°	15314	14288	14657
35°	14535	13311	13604
40°	13461	12092	12360
45°	12697	10844	10973
50°	12107	9483	9342
55°	11343	8224	7390
60°	10369	7064	5013
65°	8924	5662	2292
70°	6596	4297	233
75°	2861	2465	176
80°	131	525	131
85°	0	131	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	155.1	5.2	2.5
10°-20°	422.7	14.3	6.7
20°-30°	575.5	19.5	9.1
30°-40°	614.0	20.8	9.7
40°-50°	536.9	18.2	8.5
50°-60°	392.9	13.3	6.2
60°-70°	207.4	7.0	3.3
70°-80°	49.2	1.7	0.8
80°-90°	0.9	0.0	0.0
90°-100°	0.4	0.0	0.0
100°-110°	0.7	0.0	0.0
110°-120°	0.2	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°	1153.4	39.0	18.3
0°-40°	1767.4	59.8	28.1
0°-60°	2697.2	91.2	42.8
0°-90°	2954.7	100.0	46.9
90°-120°	1.3	0.0	0.0
90°-150°	1.3	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	2956.0	100.0	46.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1642	1641	1643	1642	1642	156
15°	1542	1549	1512	1485	1479	426
25°	1287	1256	1220	1261	1247	589
35°	1045	1002	957	977	978	650
45°	788	723	673	650	681	610
55°	571	502	414	370	372	509
65°	331	285	210	130	85	325
75°	65	67	56	6	4	81
85°	0	0	1	1	0	1
90°	0	0	0	0	0	0
95°	0	0	0	1	0	0
105°	1	1	1	1	0	1
115°	0	0	1	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°	1654	1654	1654	1654	1654
2.5°	1652	1651	1651	1650	1652
5°	1642	1641	1643	1642	1642
7.5°	1625	1625	1625	1618	1613
10°	1607	1604	1592	1578	1572
12.5°	1591	1585	1552	1534	1528
15°	1542	1549	1512	1485	1479
17.5°	1448	1470	1468	1431	1426
20°	1365	1368	1404	1378	1369
22.5°	1334	1304	1317	1318	1311
25°	1287	1256	1220	1261	1247
27.5°	1229	1202	1144	1197	1182
30°	1164	1131	1086	1130	1114
32.5°	1109	1063	1025	1056	1047
35°	1045	1002	957	977	978
37.5°	969	931	884	892	906
40°	905	855	813	805	831
42.5°	842	788	745	726	756
45°	788	723	673	650	681
47.5°	737	666	600	577	602
50°	683	612	535	509	527
52.5°	627	557	470	439	449
55°	571	502	414	370	372
57.5°	513	445	360	305	295
60°	455	390	310	240	220
62.5°	398	338	259	183	150
65°	331	285	210	130	85
67.5°	260	225	167	85	21
70°	198	167	129	44	7
72.5°	131	122	90	17	5
75°	65	67	56	6	4
77.5°	13	22	29	3	3
80°	2	2	8	2	2
82.5°	1	1	1	1	1
85°	0	0	1	1	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	1	0
97.5°	1	1	1	1	0
100°	1	1	1	1	0
102.5°	1	1	1	1	0
105°	1	1	1	1	0
107.5°	0	1	1	0	0
110°	0	0	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	1	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)