

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582242

Luminaire Tested: **HC630D010-HM63040935-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

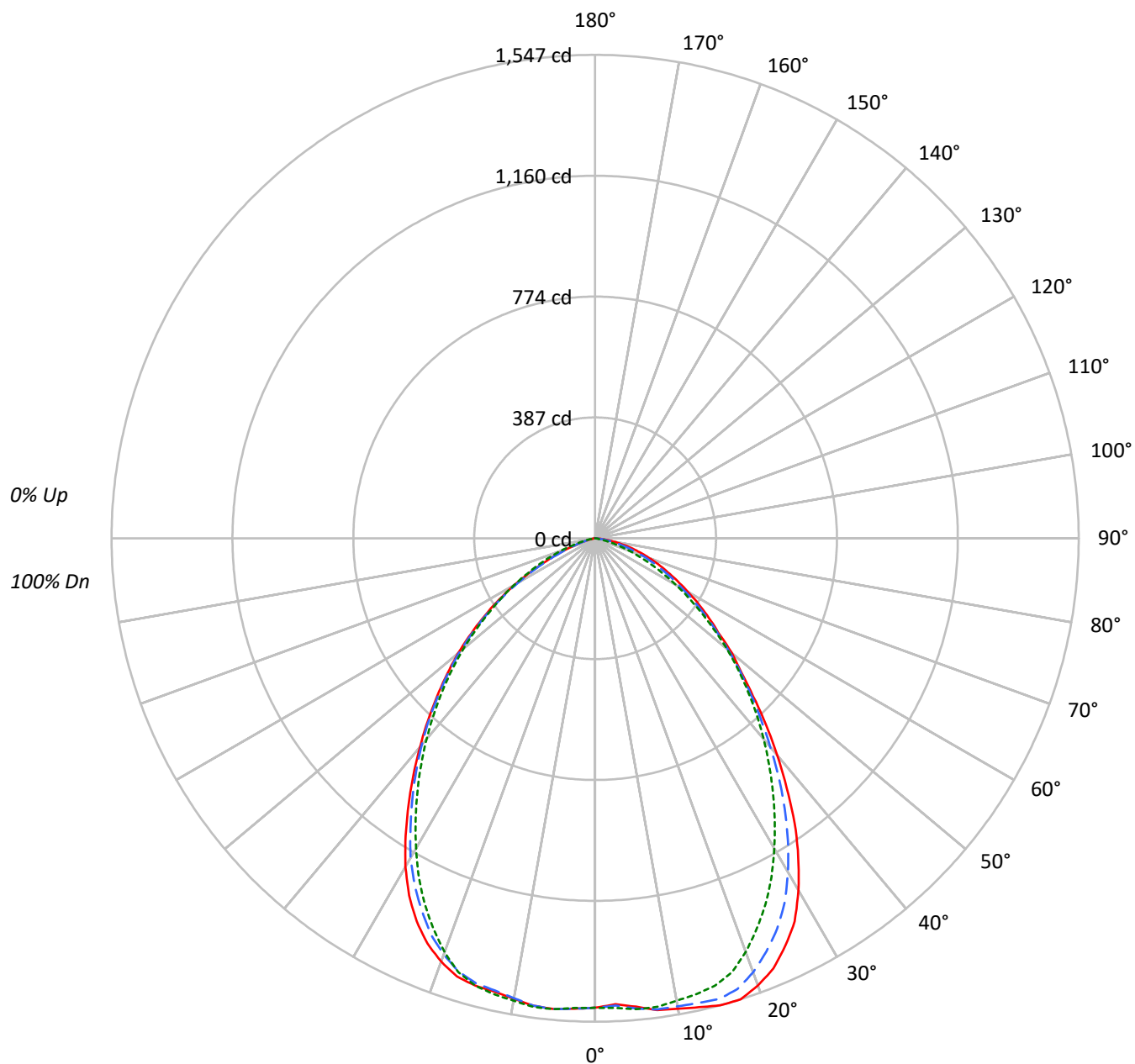
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82367	82367	82367
5°	82797	83238	83238
10°	85108	83638	83298
15°	87810	84115	84115
20°	88844	82187	84089
25°	87066	78077	81767
30°	82348	72555	76809
35°	74526	66354	69627
40°	64836	60027	62353
45°	55401	53509	55401
50°	48612	46881	48783
55°	42426	39502	41059
60°	37508	32815	32366
65°	33272	25878	22181
70°	29364	18272	13384
75°	25015	10357	6481
80°	18658	3220	1926
85°	10253	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.8
10°-20°	421.7	13.9
20°-30°	615.9	20.3
30°-40°	645.9	21.3
40°-50°	544.1	17.9
50°-60°	381.2	12.6
60°-70°	204.4	6.7
70°-80°	68.6	2.3
80°-90°	7.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1181.6	39.0
0°-40°	1827.5	60.2
0°-60°	2752.9	90.8
0°-90°	3033.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1502	1502	1502	1502	1502	
5°	1505	1511	1513	1513	1513	145
15°	1547	1527	1482	1474	1482	436
25°	1439	1378	1291	1313	1352	659
35°	1114	1057	992	1020	1040	691
45°	715	702	690	708	715	557
55°	444	430	413	421	430	400
65°	256	234	200	165	171	256
75°	118	92	49	31	31	125
85°	16	8	2	2	2	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1502.5	1502.5	1502.5	1502.5	1502.5	1502.5	1502.5	1502.5	1502.5
2.5°	1492.3	1492.3	1496.4	1500.4	1504.6	1504.6	1506.6	1508.6	1506.6
5°	1504.6	1504.6	1510.6	1512.6	1512.6	1510.6	1512.6	1512.6	1512.6
7.5°	1522.9	1518.7	1520.8	1516.7	1512.6	1510.6	1508.6	1508.6	1508.6
10°	1528.9	1524.9	1520.8	1512.6	1502.5	1496.4	1494.3	1496.4	1496.4
12.5°	1537.1	1533.0	1522.9	1506.6	1494.3	1484.1	1482.1	1486.2	1486.2
15°	1547.2	1543.2	1526.9	1500.4	1482.1	1472.0	1474.0	1478.0	1482.1
17.5°	1547.2	1539.2	1512.6	1478.0	1455.7	1445.5	1453.7	1463.8	1470.0
20°	1522.9	1514.7	1478.0	1435.2	1408.8	1402.8	1416.9	1435.2	1441.4
22.5°	1490.3	1474.0	1431.2	1380.3	1351.8	1351.8	1372.2	1394.6	1402.8
25°	1439.4	1427.2	1378.3	1319.2	1290.8	1288.8	1313.1	1343.7	1351.8
27.5°	1382.3	1366.0	1313.1	1252.0	1221.6	1223.6	1250.0	1280.6	1288.8
30°	1300.9	1280.6	1233.7	1174.7	1146.2	1154.4	1180.8	1203.1	1213.4
32.5°	1209.3	1191.0	1148.2	1093.3	1068.8	1077.0	1099.3	1119.7	1127.9
35°	1113.6	1093.3	1056.7	1007.8	991.5	999.6	1019.9	1036.2	1040.4
37.5°	1005.8	991.5	965.0	926.3	914.1	924.3	940.6	950.7	954.9
40°	906.0	893.8	871.3	842.9	838.8	846.9	863.2	869.3	871.3
42.5°	808.3	798.1	783.8	763.5	763.5	771.5	785.8	790.0	792.0
45°	714.6	708.5	702.3	686.1	690.2	700.3	708.5	714.6	714.6
47.5°	633.1	635.2	627.1	614.8	618.9	629.1	635.2	641.3	641.3
50°	570.0	563.9	555.7	543.6	549.7	557.9	566.0	570.0	572.0
52.5°	496.8	494.7	488.6	474.4	478.5	482.5	490.7	496.8	498.8
55°	443.9	437.7	429.6	413.3	413.3	417.3	421.4	425.5	429.6
57.5°	393.0	386.8	374.7	356.2	354.2	354.2	352.2	356.2	362.4
60°	342.1	339.9	321.6	305.3	299.3	293.2	285.0	287.0	295.2
62.5°	297.2	293.2	276.9	256.5	244.3	234.1	223.9	221.9	230.1
65°	256.5	252.4	234.1	213.8	199.5	181.2	164.9	164.9	171.0
67.5°	219.8	211.8	195.5	173.0	154.7	132.3	116.0	120.1	122.1
70°	183.2	177.2	158.9	136.4	114.0	91.7	81.4	83.5	83.5
72.5°	150.6	142.6	124.1	101.8	79.4	59.1	54.9	52.9	52.9
75°	118.1	110.0	91.7	69.2	48.9	34.6	30.6	30.6	30.6
77.5°	85.5	79.4	63.1	42.8	26.5	16.3	14.3	12.2	12.2
80°	59.1	52.9	38.6	22.4	10.2	6.1	6.1	6.1	6.1
82.5°	34.6	28.5	18.3	10.2	4.0	2.0	2.0	2.0	2.0
85°	16.3	12.2	8.1	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)