

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: P593229

Luminaire Tested: **HC630D010-HM63040950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2645.8 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

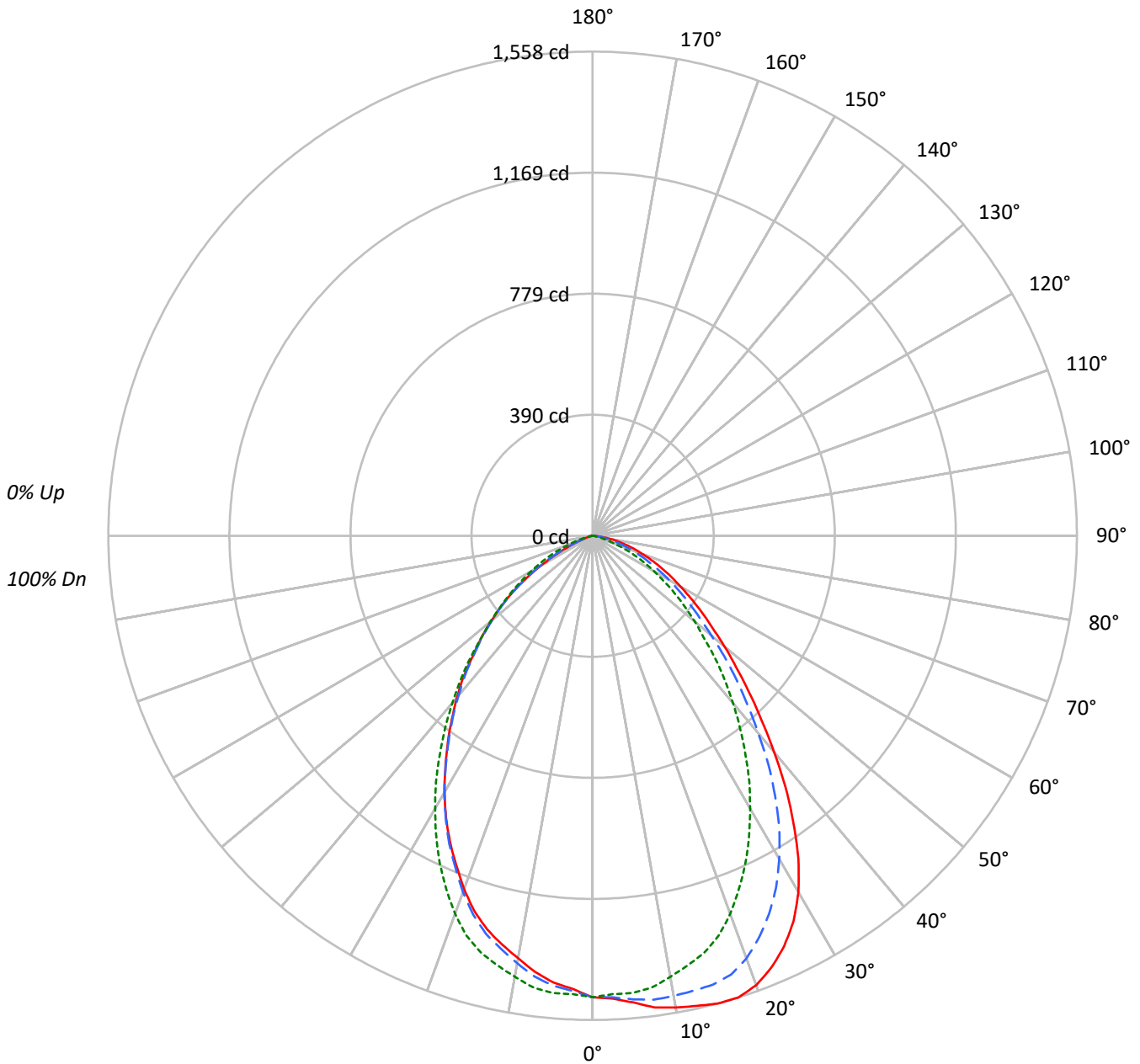
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81392	81392	81392
5°	82968	81246	79408
10°	85787	80203	76836
15°	88411	78809	74422
20°	89783	75531	70537
25°	88166	70353	65683
30°	83810	64111	60281
35°	75322	57300	54362
40°	65008	50208	48570
45°	55044	43222	42090
50°	47197	36502	36152
55°	40907	30737	29533
60°	35721	24954	21062
65°	31417	19237	11648
70°	27120	12710	5706
75°	23002	6185	2224
80°	17805	2620	1326
85°	10567	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	5.3
10°-20°	396.2	15.0
20°-30°	558.0	21.1
30°-40°	570.1	21.5
40°-50°	459.6	17.4
50°-60°	308.3	11.7
60°-70°	156.0	5.9
70°-80°	49.9	1.9
80°-90°	7.7	0.3
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°	1094.3	41.4
0°-40°	1664.3	62.9
0°-60°	2432.2	91.9
0°-90°	2645.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1485	1485	1485	1485	1485	
5°	1508	1497	1476	1453	1443	145
15°	1558	1495	1389	1326	1311	440
25°	1458	1343	1163	1092	1086	667
35°	1126	1023	856	808	812	700
45°	710	654	558	539	543	552
55°	428	380	322	307	309	385
65°	242	200	148	98	90	242
75°	109	77	29	10	10	117
85°	17	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°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1491.0	1488.9	1486.8	1482.7	1476.4	1470.1	1465.9	1461.8	1459.6
5°	1507.7	1503.5	1497.3	1488.9	1476.4	1461.8	1453.4	1445.0	1443.0
7.5°	1530.7	1522.3	1505.6	1486.8	1465.9	1445.0	1430.5	1422.0	1415.9
10°	1541.1	1526.4	1503.5	1472.2	1440.8	1415.9	1397.1	1384.5	1380.3
12.5°	1549.5	1532.7	1499.3	1457.6	1415.9	1382.5	1361.5	1351.1	1346.9
15°	1557.8	1541.1	1495.2	1440.8	1388.6	1349.0	1326.0	1315.6	1311.3
17.5°	1557.8	1534.9	1480.5	1411.6	1349.0	1301.0	1277.9	1267.6	1265.5
20°	1539.0	1514.0	1447.1	1365.7	1294.7	1240.4	1219.6	1213.3	1209.1
22.5°	1503.5	1474.2	1399.1	1307.2	1230.0	1177.7	1154.8	1150.6	1146.4
25°	1457.6	1428.3	1342.7	1244.5	1163.1	1110.9	1092.1	1087.9	1085.9
27.5°	1399.1	1367.8	1277.9	1177.7	1090.1	1039.9	1023.3	1023.3	1021.1
30°	1324.0	1288.4	1200.8	1100.5	1012.8	966.9	954.3	954.3	952.3
32.5°	1232.0	1196.5	1117.2	1021.1	937.6	889.6	879.1	883.3	881.3
35°	1125.5	1096.3	1023.3	929.2	856.2	812.3	808.2	812.3	812.3
37.5°	1019.1	991.9	929.2	847.9	778.9	739.2	739.2	745.5	743.4
40°	908.4	887.5	829.0	758.0	701.6	674.5	670.4	676.5	678.7
42.5°	804.0	787.2	737.2	678.7	628.5	601.4	607.7	611.9	613.9
45°	710.0	693.3	653.6	593.1	557.5	538.7	538.7	545.0	542.9
47.5°	626.5	613.9	574.3	515.8	484.5	476.1	480.2	484.5	484.5
50°	553.4	534.6	497.0	451.1	428.0	417.7	421.9	423.9	423.9
52.5°	484.5	471.9	434.3	392.6	371.7	365.4	365.4	367.5	367.5
55°	428.0	413.4	380.0	338.3	321.6	313.2	307.0	304.9	309.0
57.5°	373.8	361.2	329.9	290.2	271.4	263.1	250.6	246.4	250.6
60°	325.8	315.3	284.1	246.4	227.6	210.9	196.3	188.0	192.1
62.5°	284.1	271.4	240.2	208.8	188.0	169.2	146.1	133.6	139.9
65°	242.2	231.7	200.5	169.2	148.3	125.3	98.1	89.8	89.8
67.5°	204.6	194.2	164.9	137.8	112.7	85.6	60.5	58.5	60.5
70°	169.2	158.7	133.6	106.5	79.3	52.2	35.6	35.6	35.6
72.5°	139.9	127.3	104.4	77.3	50.2	27.1	18.8	20.9	20.9
75°	108.6	98.1	77.3	52.2	29.2	12.5	10.5	10.5	10.5
77.5°	81.4	73.1	54.3	33.4	14.6	4.2	4.2	4.2	4.2
80°	56.4	48.0	35.6	20.9	8.3	4.2	4.2	4.2	4.2
82.5°	33.4	29.2	20.9	10.5	4.2	2.1	2.1	2.1	2.1
85°	16.8	14.6	8.3	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	4.2	4.2	2.1	2.1	0.0	2.1	2.1	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)