

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: P582225

Luminaire Tested: **HC630D010-HM63040930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.7 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

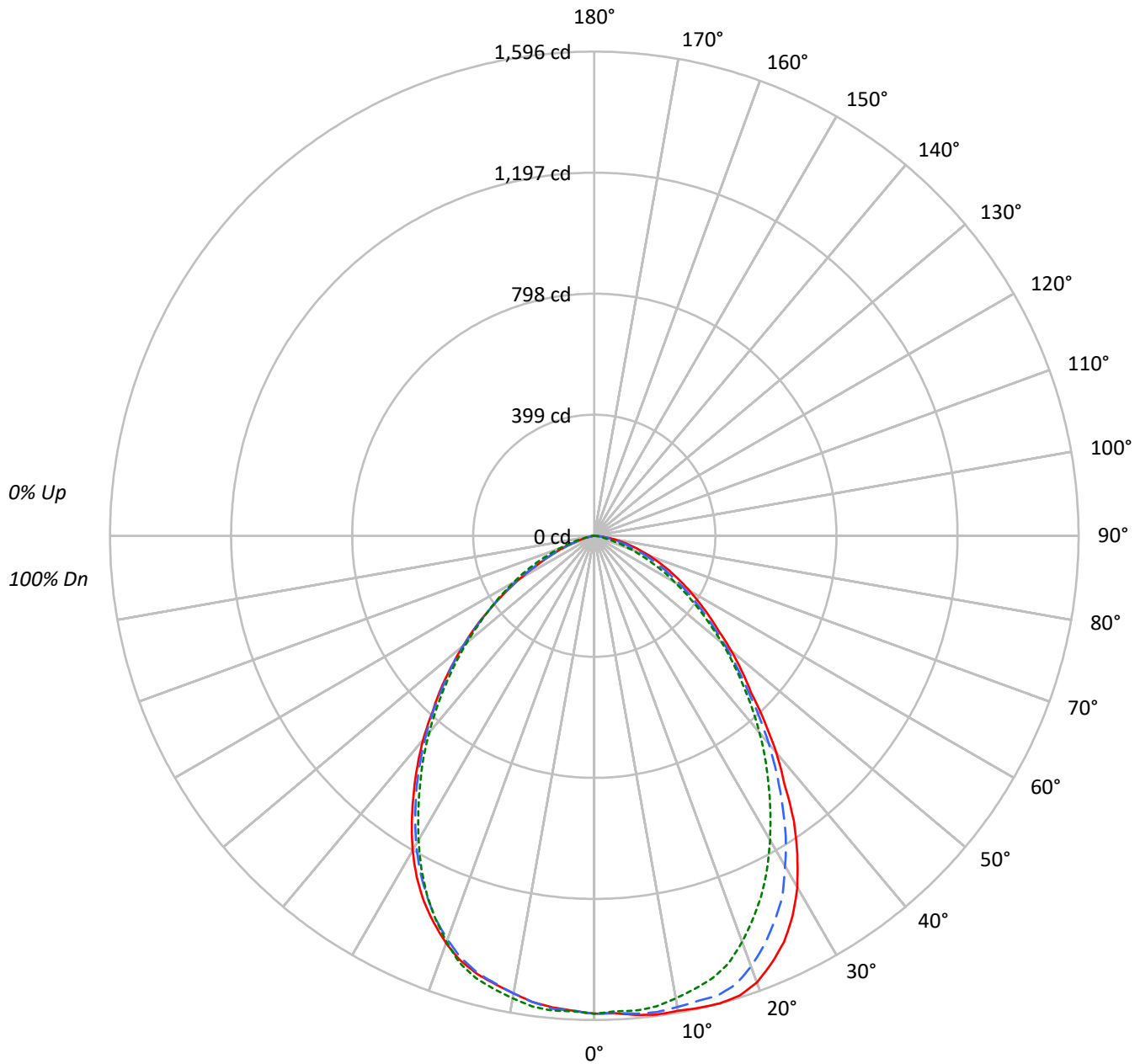
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86358	86358	86358
5°	87249	86457	85890
10°	88492	86193	85275
15°	90574	85653	84830
20°	91416	83103	83348
25°	89418	78924	80418
30°	84690	73315	75796
35°	76680	67010	69500
40°	66775	60571	62796
45°	56665	53618	55541
50°	50182	46839	48067
55°	44204	40056	39865
60°	39613	33725	31017
65°	35347	27059	22220
70°	31095	19523	13897
75°	26243	11819	7879
80°	20205	5209	3252
85°	11636	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	4.8
10°-20°	429.7	13.9
20°-30°	621.2	20.1
30°-40°	653.7	21.2
40°-50°	549.5	17.8
50°-60°	385.7	12.5
60°-70°	212.2	6.9
70°-80°	75.3	2.4
80°-90°	9.8	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°	1200.5	38.9
0°-40°	1854.2	60.1
0°-60°	2789.4	90.4
0°-90°	3086.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1575	1575	1575	1575	1575	
5°	1586	1582	1571	1565	1561	152
15°	1596	1569	1509	1491	1495	450
25°	1478	1404	1305	1307	1330	676
35°	1146	1080	1001	1022	1038	710
45°	731	710	692	708	716	573
55°	462	438	419	419	417	416
65°	272	244	209	171	171	271
75°	124	99	56	37	37	133
85°	18	10	2	2	2	26
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°	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3
2.5°	1575.3	1575.3	1573.2	1573.2	1569.1	1569.1	1567.0	1567.0	1567.0
5°	1585.5	1585.5	1581.5	1575.3	1571.1	1565.0	1565.0	1562.8	1560.8
7.5°	1591.8	1589.7	1583.5	1575.3	1565.0	1554.6	1550.5	1552.6	1550.5
10°	1589.7	1585.5	1577.3	1560.8	1548.4	1533.9	1531.9	1529.9	1531.9
12.5°	1593.9	1587.7	1571.1	1550.5	1529.9	1513.4	1511.2	1511.2	1513.4
15°	1595.9	1589.7	1569.1	1538.1	1509.2	1492.7	1490.6	1492.7	1494.7
17.5°	1589.7	1581.5	1550.5	1509.2	1476.1	1459.6	1459.6	1463.8	1467.9
20°	1567.0	1554.6	1511.2	1461.8	1424.5	1412.2	1416.3	1424.5	1428.7
22.5°	1525.7	1511.2	1461.8	1406.0	1366.8	1356.4	1366.8	1377.1	1381.1
25°	1478.3	1461.8	1403.9	1346.1	1304.8	1292.4	1306.8	1323.4	1329.5
27.5°	1414.2	1395.6	1342.0	1275.9	1234.7	1228.5	1244.9	1263.6	1267.6
30°	1337.9	1317.2	1257.4	1195.4	1158.2	1156.2	1174.7	1191.3	1197.4
32.5°	1244.9	1226.3	1174.7	1112.8	1079.7	1079.7	1098.4	1112.8	1119.0
35°	1145.8	1125.2	1079.7	1028.1	1001.3	1003.4	1021.9	1032.3	1038.5
37.5°	1028.1	1021.9	986.9	943.5	924.9	929.1	943.5	951.8	958.0
40°	933.1	916.7	894.0	858.8	846.4	850.6	865.0	873.3	877.5
42.5°	829.9	819.6	801.0	776.3	768.0	774.2	786.6	792.8	790.7
45°	730.9	728.7	710.2	695.8	691.6	699.8	708.2	714.4	716.4
47.5°	658.6	650.4	633.9	623.5	619.4	627.7	635.9	640.0	640.0
50°	588.4	580.1	563.6	553.4	549.2	557.4	563.6	567.7	563.6
52.5°	518.2	510.0	495.5	483.1	481.1	485.2	487.3	489.3	493.4
55°	462.5	454.2	437.7	423.3	419.1	421.1	419.1	419.1	417.1
57.5°	408.8	400.6	384.0	367.5	361.3	359.2	353.0	351.0	349.0
60°	361.3	351.0	334.5	315.9	307.6	299.4	289.0	282.9	282.9
62.5°	315.9	305.6	287.0	270.5	258.0	243.6	227.1	218.9	218.9
65°	272.5	264.3	243.6	225.1	208.6	189.9	171.3	167.2	171.3
67.5°	231.3	222.9	202.4	183.7	163.1	140.4	123.9	123.9	128.1
70°	194.0	185.8	167.2	144.5	121.8	99.0	86.7	86.7	86.7
72.5°	159.0	150.8	130.1	109.4	86.7	64.0	57.8	59.9	57.8
75°	123.9	117.7	99.0	76.3	55.8	39.2	37.2	35.1	37.2
77.5°	92.9	86.7	70.2	49.6	30.9	22.7	20.7	20.7	20.7
80°	64.0	57.8	45.4	28.9	16.5	10.3	10.3	10.3	10.3
82.5°	39.2	33.1	24.7	14.5	6.2	6.2	6.2	6.2	6.2
85°	18.5	14.5	10.3	4.2	2.0	2.0	2.0	2.0	2.0
87.5°	4.2	4.2	2.0	2.0	0.0	2.0	2.0	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)