

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: P582224

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582224
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-HM63040930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.3 lumens
Efficiency: N/A
Efficacy: 109.9 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

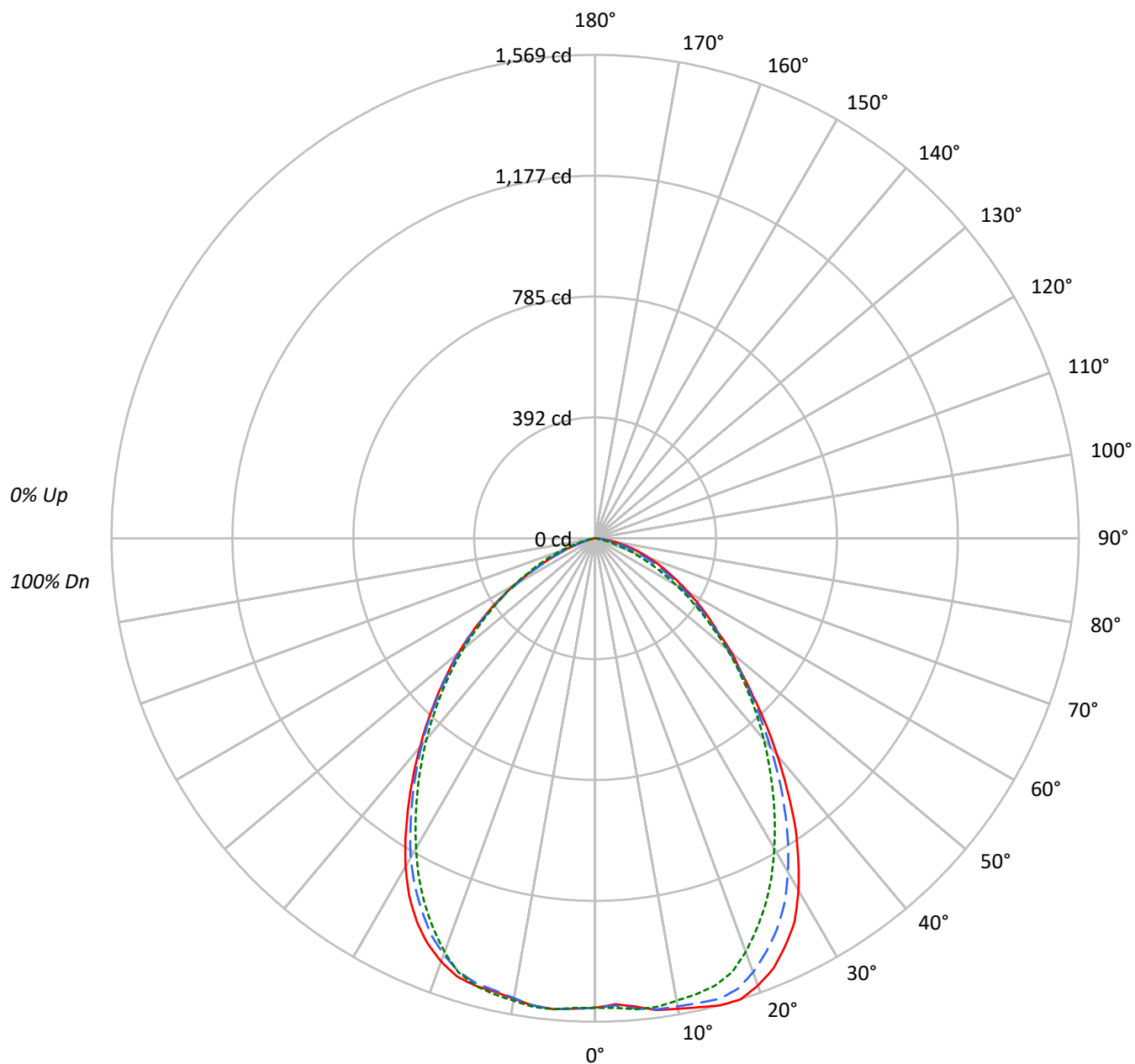
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	76	69	64		74	68	63			72	67	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		62	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			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°	83535	83535	83535
5°	83964	84426	84426
10°	86321	84824	84479
15°	89058	85307	85307
20°	90104	83354	85285
25°	88306	79184	82928
30°	83519	73587	77898
35°	75583	67291	70611
40°	65759	60878	63247
45°	56184	54269	56184
50°	49303	47546	49482
55°	43028	40056	41633
60°	38023	33287	32826
65°	33752	26254	22506
70°	29781	18529	13576
75°	25354	10506	6545
80°	18910	3252	1957
85°	10378	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	4.8
10°-20°	427.6	13.9
20°-30°	624.6	20.3
30°-40°	655.0	21.3
40°-50°	551.9	17.9
50°-60°	386.7	12.6
60°-70°	207.3	6.7
70°-80°	69.5	2.3
80°-90°	7.5	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°	1198.4	39.0
0°-40°	1853.5	60.2
0°-60°	2792.0	90.8
0°-90°	3076.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1524	1524	1524	1524	1524	
5°	1526	1532	1534	1534	1534	147
15°	1569	1549	1503	1495	1503	443
25°	1460	1398	1309	1332	1371	669
35°	1129	1072	1006	1034	1055	701
45°	725	712	700	718	725	565
55°	450	436	419	427	436	405
65°	260	237	202	167	174	260
75°	120	93	50	31	31	127
85°	16	8	2	2	2	23
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°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8
2.5°	1513.5	1513.5	1517.6	1521.8	1525.8	1525.8	1528.0	1530.0	1528.0
5°	1525.8	1525.8	1532.0	1534.2	1534.2	1532.0	1534.2	1534.2	1534.2
7.5°	1544.5	1540.3	1542.4	1538.2	1534.2	1532.0	1530.0	1530.0	1530.0
10°	1550.7	1546.5	1542.4	1534.2	1523.8	1517.6	1515.5	1517.6	1517.6
12.5°	1558.9	1554.7	1544.5	1528.0	1515.5	1505.3	1503.1	1507.3	1507.3
15°	1569.2	1565.1	1548.6	1521.8	1503.1	1492.8	1494.9	1499.1	1503.1
17.5°	1569.2	1560.9	1534.2	1499.1	1476.3	1466.0	1474.2	1484.6	1490.8
20°	1544.5	1536.2	1499.1	1455.7	1428.8	1422.6	1437.1	1455.7	1461.9
22.5°	1511.5	1494.9	1451.5	1399.9	1371.0	1371.0	1391.6	1414.4	1422.6
25°	1459.9	1447.4	1397.9	1338.0	1309.1	1306.9	1331.8	1362.7	1371.0
27.5°	1401.9	1385.4	1331.8	1269.9	1238.8	1241.0	1267.8	1298.7	1306.9
30°	1319.4	1298.7	1251.3	1191.4	1162.5	1170.7	1197.6	1220.3	1230.6
32.5°	1226.5	1207.9	1164.5	1108.7	1084.0	1092.2	1114.9	1135.6	1143.9
35°	1129.4	1108.7	1071.6	1022.1	1005.5	1013.9	1034.4	1051.0	1055.1
37.5°	1020.0	1005.5	978.7	939.4	927.1	937.4	953.9	964.3	968.4
40°	918.9	906.5	883.8	854.8	850.7	858.9	875.5	881.6	883.8
42.5°	819.7	809.4	795.0	774.3	774.3	782.6	797.0	801.1	803.2
45°	724.7	718.5	712.3	695.8	700.0	710.3	718.5	724.7	724.7
47.5°	642.2	644.2	636.0	623.5	627.7	638.0	644.2	650.4	650.4
50°	578.1	571.9	563.7	551.3	557.5	565.7	574.0	578.1	580.2
52.5°	503.8	501.8	495.6	481.1	485.2	489.4	497.6	503.8	505.9
55°	450.2	444.0	435.6	419.1	419.1	423.3	427.4	431.5	435.6
57.5°	398.6	392.3	379.9	361.3	359.3	359.3	357.2	361.3	367.5
60°	346.8	344.8	326.3	309.7	303.6	297.4	289.0	291.2	299.4
62.5°	301.4	297.4	280.8	260.2	247.8	237.4	227.1	225.1	233.3
65°	260.2	256.0	237.4	216.8	202.4	183.8	167.3	167.3	173.5
67.5°	222.9	214.7	198.2	175.5	156.9	134.2	117.7	121.9	123.9
70°	185.8	179.7	161.1	138.4	115.6	92.9	82.6	84.7	84.7
72.5°	152.8	144.6	125.9	103.2	80.5	59.9	55.8	53.7	53.7
75°	119.7	111.5	92.9	70.2	49.6	35.1	30.9	30.9	30.9
77.5°	86.7	80.5	64.0	43.4	26.9	16.5	14.5	12.4	12.4
80°	59.9	53.7	39.2	22.7	10.3	6.2	6.2	6.2	6.2
82.5°	35.1	28.9	18.5	10.3	4.2	2.0	2.0	2.0	2.0
85°	16.5	12.4	8.2	4.2	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)