

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: P582159

Luminaire Tested: **HC630D010-HM63040830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582159
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-HM63040830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.6 lumens
Efficiency: N/A
Efficacy: 99.4 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

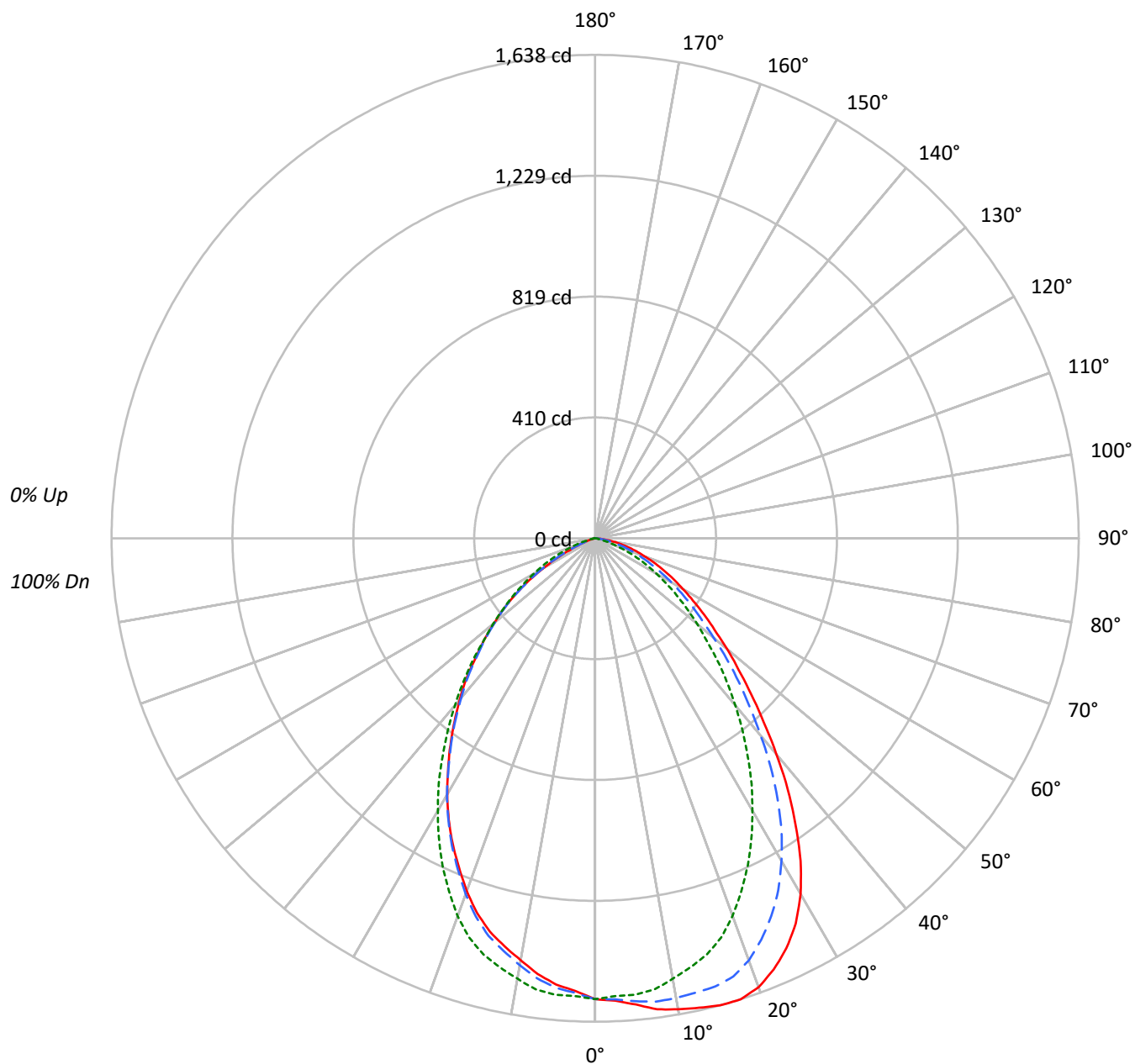
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	102	100		101	99	97		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	80	75	93	86	79	74		83	77	73		80	76	72		78	74	71
4	89	79	71	66	87	78	71	65		75	69	64		73	68	64		71	67	63
5	83	72	64	58	81	71	63	58		69	62	57		67	61	57		65	60	56
6	77	65	58	52	75	65	57	52		63	56	51		61	55	51		60	55	51
7	72	60	52	47	70	59	52	47		58	51	46		56	51	46		55	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	44	39	62	51	44	39		50	43	39		49	43	38		48	42	38
10	60	48	40	36	58	47	40	36		46	40	36		45	40	35		45	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85602	85602	85602
5°	87260	85444	83507
10°	90223	84356	80810
15°	92980	82884	78275
20°	94427	79434	74183
25°	92727	73988	69077
30°	88140	67422	63396
35°	79224	60258	57172
40°	68371	52806	51081
45°	57890	45462	44268
50°	49636	38404	38029
55°	43038	32333	31072
60°	37563	26237	22147
65°	33052	20223	12245
70°	28514	13384	5979
75°	24167	6524	2309
80°	18721	2778	1389
85°	11070	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	5.3
10°-20°	416.7	15.0
20°-30°	586.8	21.1
30°-40°	599.5	21.5
40°-50°	483.4	17.4
50°-60°	324.2	11.7
60°-70°	164.1	5.9
70°-80°	52.4	1.9
80°-90°	8.0	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°	1150.9	41.4
0°-40°	1750.4	62.9
0°-60°	2558.0	91.9
0°-90°	2782.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1562	1562	1562	1562	1562	
5°	1586	1575	1553	1529	1518	153
15°	1638	1572	1460	1395	1379	463
25°	1533	1412	1223	1149	1142	702
35°	1184	1076	900	850	854	737
45°	747	687	586	567	571	581
55°	450	400	338	323	325	405
65°	255	211	156	103	94	254
75°	114	81	31	11	11	123
85°	18	9	2	2	2	24
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°	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1568.1	1565.9	1563.7	1559.3	1552.7	1546.2	1541.8	1537.4	1535.1
5°	1585.7	1581.3	1574.7	1565.9	1552.7	1537.4	1528.6	1519.8	1517.5
7.5°	1609.8	1601.0	1583.5	1563.7	1541.8	1519.8	1504.4	1495.6	1489.0
10°	1620.8	1605.4	1581.3	1548.3	1515.4	1489.0	1469.2	1456.0	1451.7
12.5°	1629.5	1612.0	1576.9	1533.0	1489.0	1453.9	1431.9	1421.0	1416.6
15°	1638.3	1620.8	1572.5	1515.4	1460.4	1418.7	1394.6	1383.6	1379.2
17.5°	1638.3	1614.2	1557.1	1484.6	1418.7	1368.2	1344.0	1333.1	1330.8
20°	1618.6	1592.2	1521.9	1436.3	1361.6	1304.6	1282.6	1276.0	1271.6
22.5°	1581.3	1550.6	1471.5	1374.8	1293.5	1238.7	1214.4	1210.2	1205.8
25°	1533.0	1502.2	1412.2	1309.0	1223.2	1168.4	1148.6	1144.2	1142.0
27.5°	1471.5	1438.6	1344.0	1238.7	1146.4	1093.8	1076.2	1076.2	1073.9
30°	1392.4	1355.1	1262.8	1157.4	1065.1	1016.8	1003.6	1003.6	1001.5
32.5°	1295.8	1258.4	1175.0	1073.9	986.0	935.6	924.6	929.0	926.8
35°	1183.8	1153.0	1076.2	977.4	900.4	854.3	849.9	854.3	854.3
37.5°	1071.8	1043.2	977.4	891.6	819.2	777.5	777.5	784.0	781.9
40°	955.4	933.4	871.9	797.2	737.9	709.4	705.0	711.6	713.8
42.5°	845.5	828.0	775.2	713.8	661.1	632.5	639.1	643.5	645.6
45°	746.7	729.1	687.4	623.7	586.4	566.7	566.7	573.2	571.0
47.5°	658.8	645.6	604.0	542.4	509.5	500.7	505.1	509.5	509.5
50°	582.0	562.3	522.7	474.4	450.3	439.2	443.6	445.9	445.9
52.5°	509.5	496.3	456.8	412.9	390.9	384.3	384.3	386.5	386.5
55°	450.3	434.8	399.7	355.7	338.3	329.5	322.8	320.7	325.1
57.5°	393.1	379.9	347.0	305.2	285.5	276.7	263.6	259.2	263.6
60°	342.6	331.6	298.7	259.2	239.3	221.9	206.4	197.6	202.0
62.5°	298.7	285.5	252.5	219.6	197.6	177.9	153.7	140.5	147.2
65°	254.8	243.7	210.8	177.9	155.9	131.7	103.2	94.4	94.4
67.5°	215.2	204.3	173.5	144.9	118.5	90.0	63.7	61.5	63.7
70°	177.9	166.9	140.5	112.0	83.5	54.9	37.3	37.3	37.3
72.5°	147.2	134.0	109.9	81.2	52.7	28.5	19.7	22.0	22.0
75°	114.1	103.2	81.2	54.9	30.8	13.2	10.9	10.9	10.9
77.5°	85.6	76.8	57.1	35.2	15.3	4.4	4.4	4.4	4.4
80°	59.3	50.5	37.3	22.0	8.8	4.4	4.4	4.4	4.4
82.5°	35.2	30.8	22.0	10.9	4.4	2.1	2.1	2.1	2.1
85°	17.6	15.3	8.8	4.4	2.1	2.1	2.1	2.1	2.1
87.5°	4.4	4.4	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)