

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: P582135

Luminaire Tested: **HC630D010-HM63040827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582135
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-HM63040827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3060.6 lumens
Efficiency: N/A
Efficacy: 109.3 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

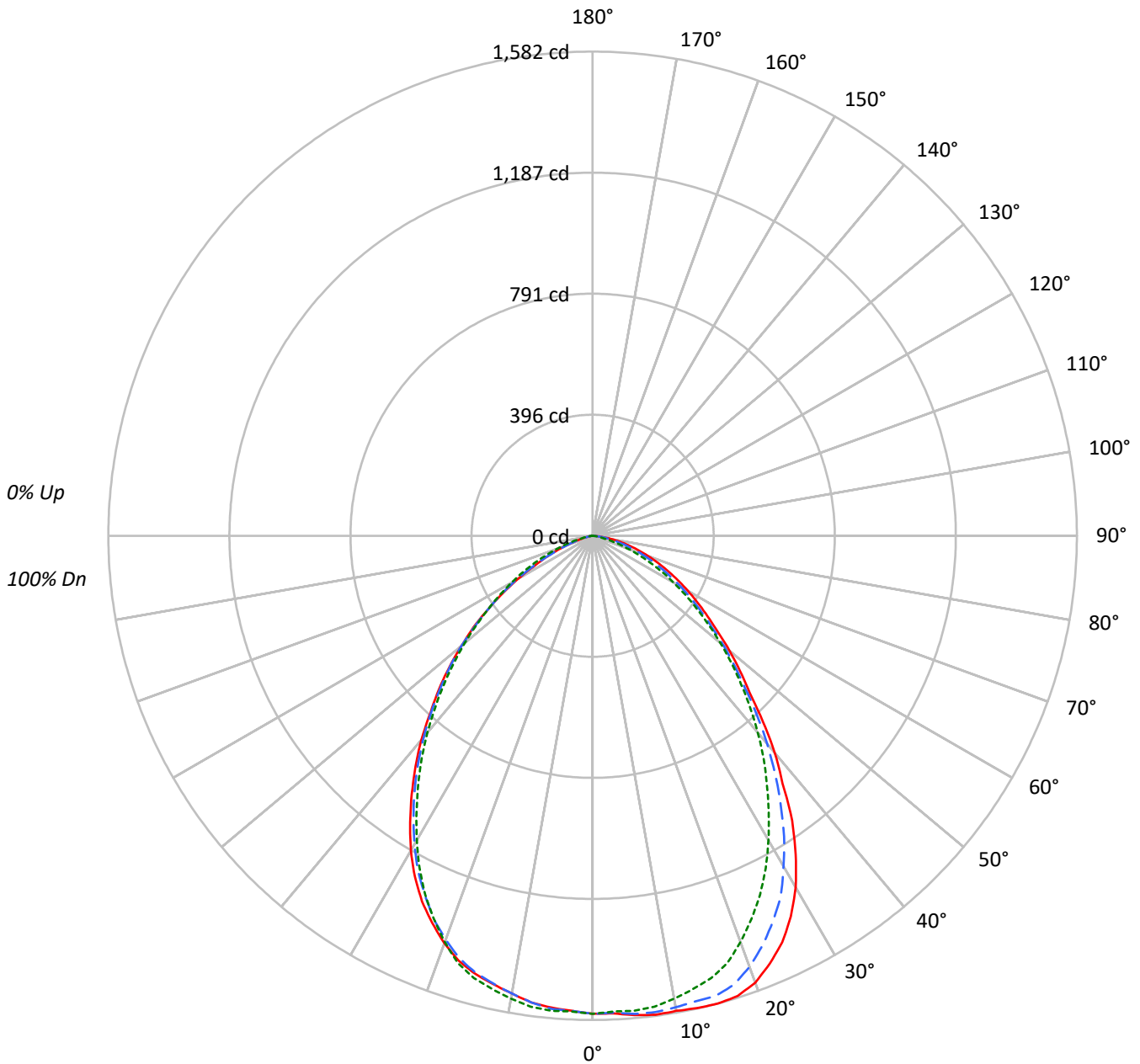
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582135

CATALOG NUMBER: HC630D010-HM63040827-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P582135

CATALOG NUMBER: HC630D010-HM63040827-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85624	85624	85624
5°	86517	85725	85164
10°	87746	85469	84551
15°	89808	84927	84115
20°	90646	82403	82642
25°	88656	78259	79747
30°	83962	72701	75157
35°	76031	66441	68911
40°	66217	60063	62260
45°	56184	53168	55068
50°	49755	46446	47657
55°	43831	39721	39521
60°	39273	33440	30754
65°	35062	26825	22039
70°	30839	19362	13784
75°	26010	11713	7816
80°	20047	5177	3220
85°	11573	1258	1258



TEST NUMBER: P582135

CATALOG NUMBER: HC630D010-HM63040827-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	4.8
10°-20°	426.1	13.9
20°-30°	616.0	20.1
30°-40°	648.1	21.2
40°-50°	544.9	17.8
50°-60°	382.4	12.5
60°-70°	210.4	6.9
70°-80°	74.7	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°	1190.3	38.9
0°-40°	1838.5	60.1
0°-60°	2765.7	90.4
0°-90°	3060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1562	1562	1562	1562	1562	
5°	1572	1568	1558	1552	1548	150
15°	1582	1556	1496	1478	1482	447
25°	1466	1392	1294	1296	1318	671
35°	1136	1071	993	1013	1030	704
45°	725	704	686	702	710	569
55°	459	434	416	416	414	413
65°	270	242	207	170	170	269
75°	123	98	55	37	37	132
85°	18	10	2	2	2	25
90°	0	0	0	0	0	



TEST NUMBER: P582135

CATALOG NUMBER: HC630D010-HM63040827-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9
2.5°	1561.9	1561.9	1559.8	1559.8	1555.8	1555.8	1553.8	1553.8	1553.8
5°	1572.2	1572.2	1568.1	1561.9	1557.8	1551.6	1551.6	1549.6	1547.6
7.5°	1578.3	1576.3	1570.1	1561.9	1551.6	1541.4	1537.4	1539.4	1537.4
10°	1576.3	1572.2	1564.0	1547.6	1535.4	1521.0	1518.9	1516.9	1518.9
12.5°	1580.3	1574.2	1557.8	1537.4	1516.9	1500.5	1498.5	1498.5	1500.5
15°	1582.4	1576.3	1555.8	1525.1	1496.4	1480.1	1478.0	1480.1	1482.1
17.5°	1576.3	1568.1	1537.4	1496.4	1463.7	1447.3	1447.3	1451.4	1455.5
20°	1553.8	1541.4	1498.5	1449.4	1412.5	1400.2	1404.3	1412.5	1416.6
22.5°	1512.8	1498.5	1449.4	1394.1	1355.2	1344.9	1355.2	1365.4	1369.5
25°	1465.7	1449.4	1392.0	1334.7	1293.8	1281.5	1295.8	1312.2	1318.4
27.5°	1402.3	1383.9	1330.6	1265.1	1224.2	1218.0	1234.4	1252.8	1256.9
30°	1326.4	1306.0	1246.7	1185.3	1148.5	1146.3	1164.7	1181.2	1187.3
32.5°	1234.4	1216.0	1164.7	1103.4	1070.6	1070.6	1089.0	1103.4	1109.6
35°	1136.1	1115.6	1070.6	1019.4	992.8	994.8	1013.3	1023.5	1029.7
37.5°	1019.4	1013.3	978.5	935.5	917.1	921.2	935.5	943.7	949.9
40°	925.3	908.9	886.4	851.6	839.3	843.4	857.7	865.9	870.0
42.5°	822.9	812.7	794.3	769.8	761.6	767.6	780.0	786.0	784.0
45°	724.7	722.7	704.2	689.9	685.8	694.0	702.1	708.3	710.3
47.5°	653.0	644.8	628.5	618.2	614.1	622.3	630.5	634.6	634.6
50°	583.4	575.2	558.8	548.6	544.6	552.8	558.8	563.0	558.8
52.5°	513.8	505.7	491.3	479.0	477.0	481.1	483.1	485.1	489.3
55°	458.6	450.4	434.0	419.6	415.6	417.6	415.6	415.6	413.5
57.5°	405.3	397.1	380.7	364.4	358.2	356.2	350.0	348.0	346.0
60°	358.2	348.0	331.6	313.2	305.0	296.8	286.5	280.5	280.5
62.5°	313.2	303.0	284.5	268.1	255.9	241.6	225.2	217.0	217.0
65°	270.3	262.1	241.6	223.2	206.8	188.3	169.9	165.9	169.9
67.5°	229.2	221.0	200.6	182.2	161.7	139.2	122.8	122.8	126.9
70°	192.4	184.3	165.9	143.3	120.8	98.2	86.0	86.0	86.0
72.5°	157.7	149.5	129.0	108.4	86.0	63.5	57.3	59.3	57.3
75°	122.8	116.6	98.2	75.7	55.3	38.9	36.9	34.8	36.9
77.5°	92.1	86.0	69.6	49.1	30.7	22.5	20.5	20.5	20.5
80°	63.5	57.3	45.1	28.7	16.4	10.2	10.2	10.2	10.2
82.5°	38.9	32.7	24.6	14.4	6.2	6.2	6.2	6.2	6.2
85°	18.4	14.4	10.2	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	4.0	4.0	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)