

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: P582153

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582153
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-HM63040830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283.3 lumens
Efficiency: N/A
Efficacy: 117.3 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

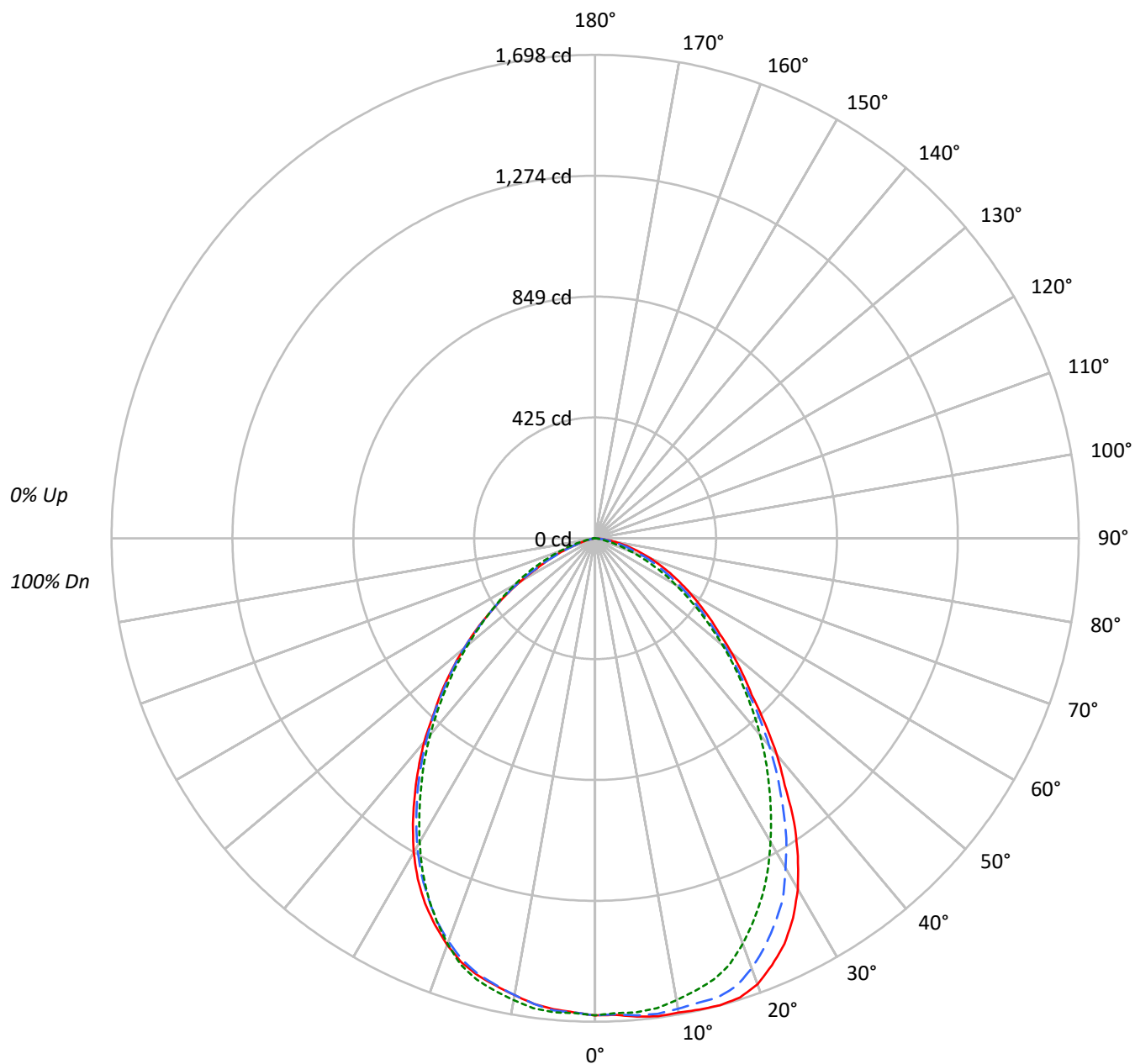
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	91862	91862	91862
5°	92813	91971	91366
10°	94131	91687	90708
15°	96351	91113	90239
20°	97244	88406	88657
25°	95116	83950	85547
30°	90083	77987	80633
35°	81566	71280	73930
40°	71040	64435	66797
45°	60278	57045	59076
50°	53380	49824	51128
55°	47014	42608	42398
60°	42135	35874	32980
65°	37605	28784	23647
70°	33083	20773	14794
75°	27895	12560	8366
80°	21499	5556	3441
85°	12391	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	4.8
10°-20°	457.1	13.9
20°-30°	660.8	20.1
30°-40°	695.3	21.2
40°-50°	584.5	17.8
50°-60°	410.2	12.5
60°-70°	225.7	6.9
70°-80°	80.1	2.4
80°-90°	10.4	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°	1277.0	38.9
0°-40°	1972.3	60.1
0°-60°	2967.1	90.4
0°-90°	3283.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1676	1676	1676	1676	1676	
5°	1687	1682	1671	1665	1660	161
15°	1698	1669	1605	1586	1590	479
25°	1572	1493	1388	1390	1414	719
35°	1219	1149	1065	1087	1105	755
45°	778	756	736	753	762	610
55°	492	466	446	446	444	443
65°	290	259	222	182	182	289
75°	132	106	59	40	40	141
85°	20	11	2	2	2	27
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°	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7
2.5°	1675.7	1675.7	1673.4	1673.4	1669.0	1669.0	1666.9	1666.9	1666.9
5°	1686.6	1686.6	1682.2	1675.7	1671.3	1664.7	1664.7	1662.5	1660.3
7.5°	1693.3	1691.0	1684.5	1675.7	1664.7	1653.7	1649.3	1651.5	1649.3
10°	1691.0	1686.6	1677.8	1660.3	1647.1	1631.7	1629.5	1627.4	1629.5
12.5°	1695.4	1688.9	1671.3	1649.3	1627.4	1609.8	1607.5	1607.5	1609.8
15°	1697.7	1691.0	1669.0	1636.1	1605.4	1587.8	1585.7	1587.8	1590.0
17.5°	1691.0	1682.2	1649.3	1605.4	1570.2	1552.7	1552.7	1557.0	1561.4
20°	1666.9	1653.7	1607.5	1554.9	1515.4	1502.2	1506.6	1515.4	1519.7
22.5°	1623.0	1607.5	1554.9	1495.5	1453.8	1442.9	1453.8	1464.8	1469.2
25°	1572.5	1554.9	1493.4	1431.9	1387.9	1374.7	1390.2	1407.7	1414.3
27.5°	1504.3	1484.6	1427.5	1357.2	1313.3	1306.7	1324.3	1344.0	1348.4
30°	1423.1	1401.1	1337.4	1271.5	1232.0	1229.8	1249.6	1267.1	1273.8
32.5°	1324.3	1304.5	1249.6	1183.8	1148.6	1148.6	1168.3	1183.8	1190.3
35°	1218.8	1196.8	1148.6	1093.6	1065.1	1067.4	1087.1	1098.0	1104.7
37.5°	1093.6	1087.1	1049.8	1003.6	983.9	988.3	1003.6	1012.4	1019.0
40°	992.7	975.1	951.0	913.6	900.4	904.8	920.2	929.0	933.4
42.5°	882.8	871.9	852.0	825.8	817.0	823.5	836.7	843.4	841.1
45°	777.5	775.2	755.5	740.2	735.8	744.4	753.2	759.9	762.0
47.5°	700.6	691.8	674.2	663.2	658.8	667.6	676.4	680.8	680.8
50°	625.9	617.1	599.5	588.6	584.2	593.0	599.5	603.9	599.5
52.5°	551.2	542.4	527.1	513.9	511.7	516.1	518.3	520.4	524.8
55°	491.9	483.1	465.6	450.2	445.8	448.0	445.8	445.8	443.6
57.5°	434.8	426.0	408.4	390.9	384.3	382.1	375.5	373.3	371.1
60°	384.3	373.3	355.7	336.0	327.2	318.4	307.5	300.8	300.8
62.5°	336.0	325.1	305.2	287.7	274.5	259.2	241.6	232.8	232.8
65°	289.9	281.1	259.2	239.3	221.9	202.0	182.3	177.9	182.3
67.5°	246.0	237.2	215.2	195.5	173.5	149.3	131.7	131.7	136.1
70°	206.4	197.6	177.9	153.7	129.6	105.5	92.3	92.3	92.3
72.5°	169.1	160.3	138.4	116.4	92.3	68.1	61.5	63.7	61.5
75°	131.7	125.2	105.5	81.2	59.3	41.7	39.5	37.3	39.5
77.5°	98.8	92.3	74.7	52.7	32.9	24.1	22.0	22.0	22.0
80°	68.1	61.5	48.3	30.8	17.6	10.9	10.9	10.9	10.9
82.5°	41.7	35.2	26.4	15.3	6.5	6.5	6.5	6.5	6.5
85°	19.7	15.3	10.9	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)