

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: P582152

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582152
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-HM63040830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.3 lumens
Efficiency: N/A
Efficacy: 116.9 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

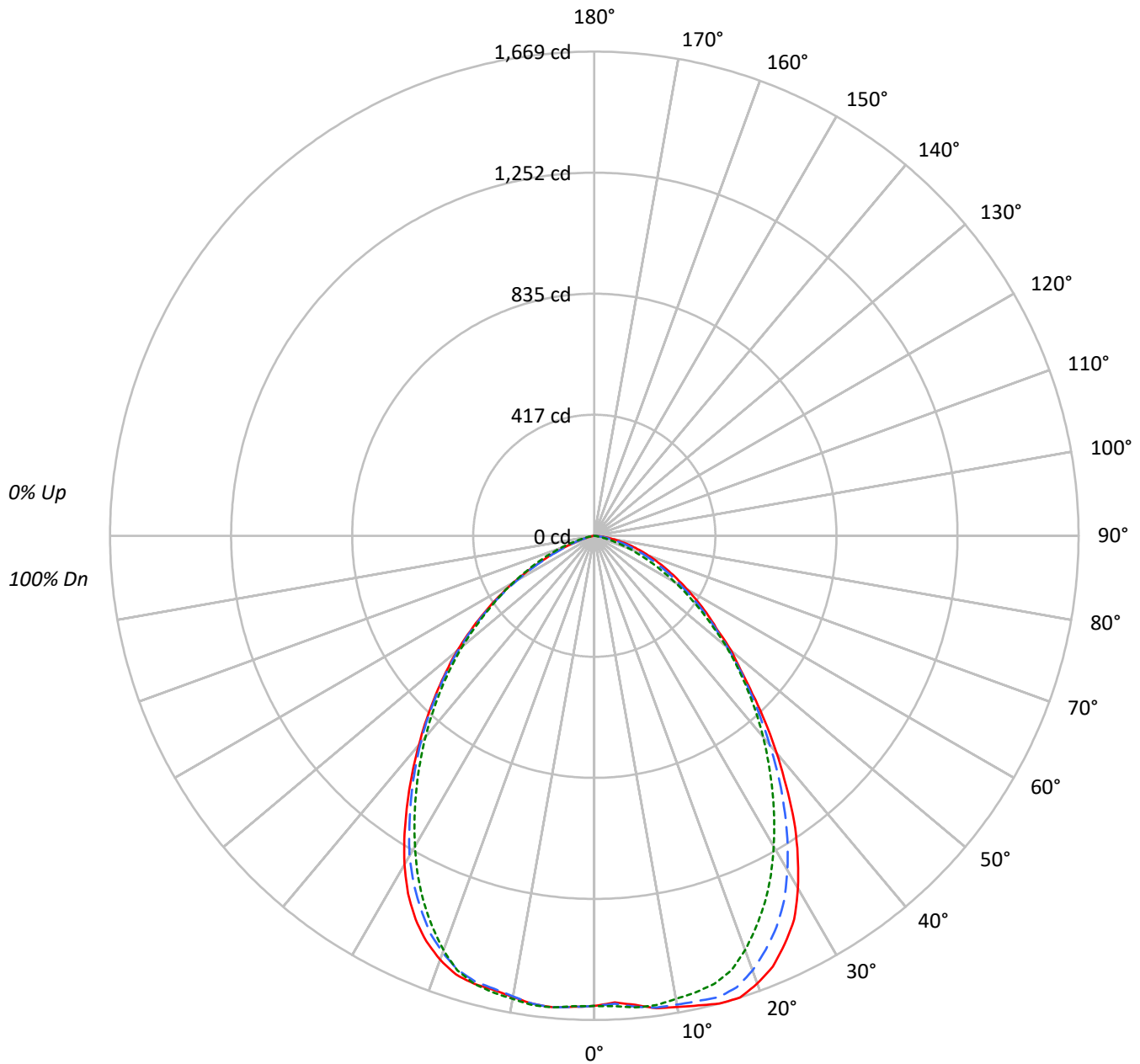
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
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	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	88863	88863	88863
5°	89319	89803	89803
10°	91821	90234	89861
15°	94734	90750	90750
20°	95838	88669	90716
25°	93925	84223	88215
30°	88843	78278	82861
35°	80401	71581	75108
40°	69945	64757	67269
45°	59766	57727	59766
50°	52450	50583	52638
55°	45762	42617	44299
60°	40446	35392	34909
65°	35905	27915	23933
70°	31688	19699	14426
75°	26963	11162	6969
80°	20110	3441	2052
85°	11070	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	4.8
10°-20°	454.9	13.9
20°-30°	664.4	20.3
30°-40°	696.8	21.3
40°-50°	587.0	17.9
50°-60°	411.3	12.6
60°-70°	220.5	6.7
70°-80°	73.9	2.3
80°-90°	8.0	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°	1274.8	39.0
0°-40°	1971.6	60.3
0°-60°	2969.9	90.8
0°-90°	3272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1621	1621	1621	1621	1621	
5°	1623	1630	1632	1632	1632	156
15°	1669	1647	1599	1590	1599	471
25°	1553	1487	1392	1417	1458	711
35°	1201	1140	1070	1100	1122	746
45°	771	758	745	764	771	601
55°	479	464	446	455	464	431
65°	277	252	215	178	184	276
75°	127	99	53	33	33	135
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°	1621.0	1621.0	1621.0	1621.0	1621.0	1621.0	1621.0	1621.0	1621.0
2.5°	1609.9	1609.9	1614.3	1618.7	1623.1	1623.1	1625.2	1627.5	1625.2
5°	1623.1	1623.1	1629.6	1631.9	1631.9	1629.6	1631.9	1631.9	1631.9
7.5°	1642.8	1638.4	1640.7	1636.3	1631.9	1629.6	1627.5	1627.5	1627.5
10°	1649.5	1645.1	1640.7	1631.9	1621.0	1614.3	1612.2	1614.3	1614.3
12.5°	1658.3	1653.9	1642.8	1625.2	1612.2	1601.1	1599.0	1603.4	1603.4
15°	1669.2	1664.8	1647.2	1618.7	1599.0	1587.9	1590.2	1594.6	1599.0
17.5°	1669.2	1660.4	1631.9	1594.6	1570.4	1559.4	1568.2	1579.2	1585.8
20°	1642.8	1634.0	1594.6	1548.4	1519.9	1513.2	1528.7	1548.4	1555.0
22.5°	1607.8	1590.2	1544.0	1489.1	1458.4	1458.4	1480.3	1504.4	1513.2
25°	1552.8	1539.6	1487.0	1423.2	1392.4	1390.3	1416.7	1449.6	1458.4
27.5°	1491.4	1473.8	1416.7	1350.7	1317.8	1320.0	1348.6	1381.5	1390.3
30°	1403.5	1381.5	1331.0	1267.2	1236.6	1245.4	1273.9	1298.0	1309.0
32.5°	1304.7	1284.8	1238.7	1179.5	1153.1	1161.9	1186.0	1208.0	1216.8
35°	1201.4	1179.5	1139.9	1087.2	1069.6	1078.4	1100.4	1117.9	1122.3
37.5°	1085.0	1069.6	1041.1	999.4	986.2	997.1	1014.7	1025.8	1030.0
40°	977.4	964.2	940.0	909.3	904.9	913.6	931.2	937.9	940.0
42.5°	871.9	861.0	845.6	823.6	823.6	832.4	847.8	852.2	854.4
45°	770.9	764.3	757.7	740.2	744.6	755.5	764.3	770.9	770.9
47.5°	683.1	685.2	676.4	663.3	667.7	678.7	685.2	691.9	691.9
50°	615.0	608.4	599.6	586.4	593.1	601.8	610.6	615.0	617.2
52.5°	535.9	533.7	527.1	511.7	516.1	520.5	529.3	535.9	538.1
55°	478.8	472.3	463.5	445.9	445.9	450.3	454.7	459.1	463.5
57.5°	423.9	417.3	404.1	384.4	382.1	382.1	380.0	384.4	390.9
60°	368.9	366.8	347.1	329.5	322.8	316.3	307.5	309.7	318.4
62.5°	320.7	316.3	298.7	276.8	263.6	252.5	241.6	239.3	248.1
65°	276.8	272.4	252.5	230.7	215.2	195.5	177.9	177.9	184.5
67.5°	237.2	228.4	210.8	186.7	166.9	142.8	125.2	129.6	131.7
70°	197.7	191.1	171.3	147.2	122.9	98.8	87.9	90.0	90.0
72.5°	162.5	153.7	134.0	109.9	85.6	63.7	59.3	57.1	57.1
75°	127.3	118.7	98.8	74.7	52.7	37.3	32.9	32.9	32.9
77.5°	92.3	85.6	68.1	46.1	28.5	17.6	15.3	13.2	13.2
80°	63.7	57.1	41.7	24.1	10.9	6.5	6.5	6.5	6.5
82.5°	37.3	30.8	19.7	10.9	4.4	2.1	2.1	2.1	2.1
85°	17.6	13.2	8.8	4.4	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	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)