

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: P593213

Luminaire Tested: **HC630D010-HM63040850-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040850-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

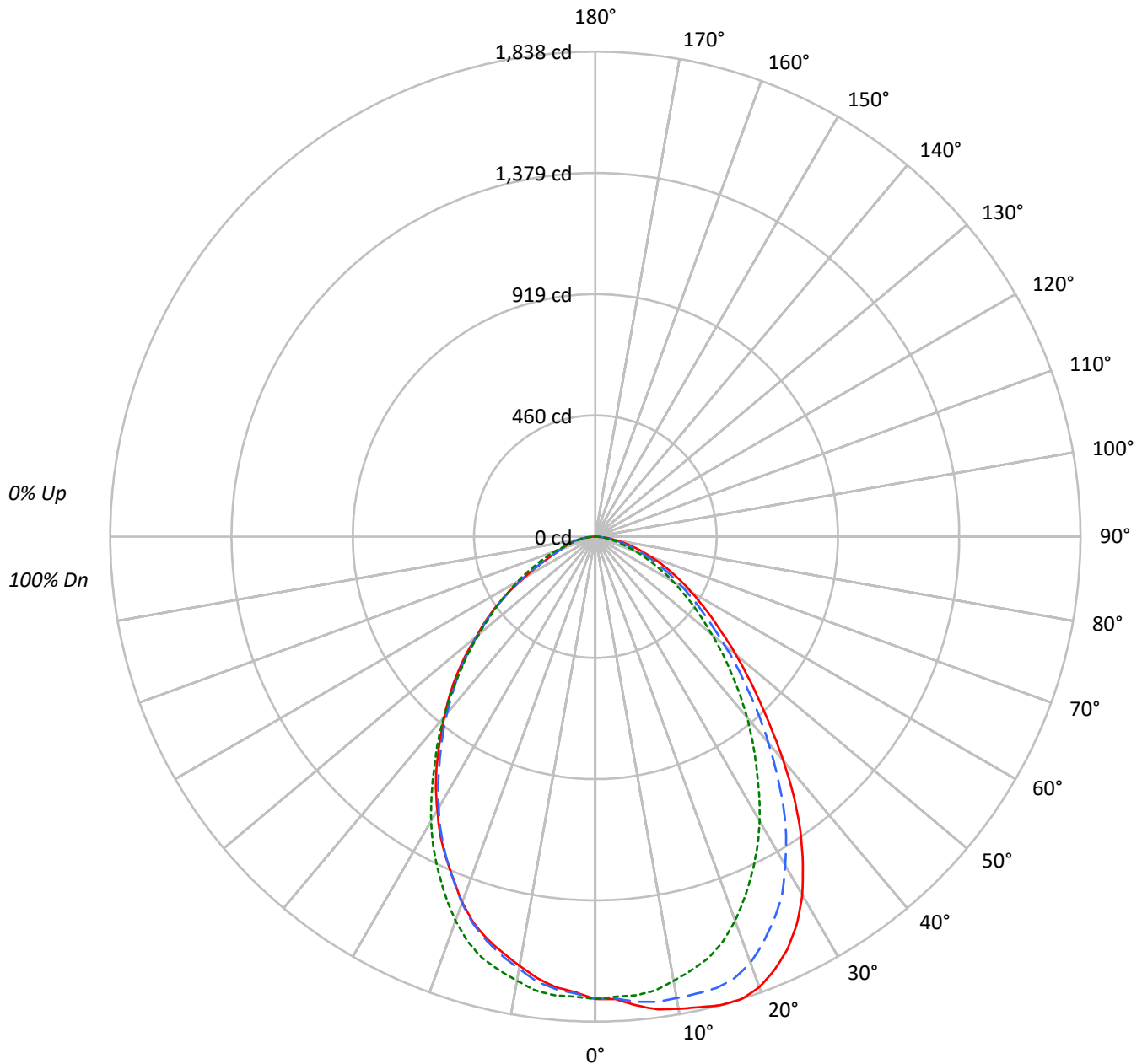
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96061	96061	96061
5°	98140	96032	94326
10°	101139	95144	91949
15°	104337	93877	89666
20°	105995	90355	86026
25°	104256	84997	81089
30°	99249	78797	75771
35°	90513	71126	70008
40°	79148	63898	63555
45°	68116	56231	57533
50°	59213	48996	50020
55°	51707	43009	43468
60°	45928	37267	34120
65°	40990	31352	26086
70°	36080	25709	21879
75°	30924	20270	20778
80°	24908	17395	20426
85°	16542	15033	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	4.8
10°-20°	472.3	13.8
20°-30°	674.2	19.6
30°-40°	706.2	20.6
40°-50°	594.6	17.3
50°-60°	423.2	12.3
60°-70°	247.7	7.2
70°-80°	117.2	3.4
80°-90°	30.2	0.9
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°	1312.5	38.2
0°-40°	2018.7	58.8
0°-60°	3036.5	88.5
0°-90°	3431.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1752	1752	1752	1752	1752	
5°	1783	1769	1745	1721	1714	171
15°	1838	1772	1654	1587	1580	519
25°	1724	1602	1405	1338	1341	789
35°	1352	1240	1063	1027	1046	840
45°	879	814	725	728	742	682
55°	541	496	450	450	455	488
65°	316	280	242	203	201	315
75°	146	122	96	93	98	157
85°	26	22	24	29	29	34
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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1754.7	1754.7	1752.3	1750.0	1745.1	1738.0	1733.2	1728.3	1728.3
5°	1783.4	1778.6	1769.1	1757.1	1745.1	1730.7	1721.2	1714.1	1714.1
7.5°	1807.4	1797.8	1778.6	1757.1	1735.6	1716.4	1699.7	1690.0	1687.7
10°	1816.9	1805.0	1776.2	1742.7	1709.2	1682.9	1663.8	1651.8	1651.8
12.5°	1826.5	1812.2	1773.9	1726.0	1682.9	1647.0	1627.9	1618.2	1615.9
15°	1838.4	1819.3	1771.5	1711.6	1654.1	1613.5	1587.1	1579.9	1579.9
17.5°	1838.4	1814.5	1754.7	1680.5	1608.7	1563.2	1539.3	1532.0	1534.5
20°	1816.9	1790.6	1718.8	1627.9	1548.8	1501.0	1477.0	1472.2	1474.6
22.5°	1776.2	1745.1	1663.8	1565.6	1479.4	1429.2	1407.5	1407.5	1405.2
25°	1723.6	1690.0	1601.5	1498.6	1405.2	1355.0	1338.2	1340.6	1340.6
27.5°	1654.1	1620.6	1532.0	1421.9	1328.6	1278.3	1266.4	1271.2	1273.5
30°	1567.9	1532.0	1438.7	1331.0	1244.8	1194.6	1187.3	1194.6	1197.0
32.5°	1462.7	1436.3	1345.4	1235.3	1153.8	1110.8	1108.4	1115.5	1125.2
35°	1352.5	1323.8	1240.0	1139.4	1062.8	1026.9	1026.9	1038.9	1046.1
37.5°	1232.9	1204.1	1127.5	1043.7	979.1	945.6	950.4	962.4	964.8
40°	1106.0	1084.4	1019.8	948.0	892.9	866.5	873.8	885.7	888.1
42.5°	986.3	967.1	914.5	849.8	809.1	790.0	799.6	813.9	818.7
45°	878.6	857.0	813.9	758.8	725.3	715.8	727.8	737.3	742.1
47.5°	780.3	761.2	725.3	675.1	651.1	646.3	658.3	663.1	667.9
50°	694.3	675.1	639.2	593.7	574.5	574.5	584.2	588.9	586.5
52.5°	610.4	593.7	560.1	521.9	509.8	509.8	517.1	519.5	524.2
55°	541.0	524.2	495.6	459.7	450.0	445.3	450.0	450.0	454.8
57.5°	476.4	462.0	435.6	402.1	390.2	385.4	383.0	380.6	385.4
60°	418.9	407.0	378.2	349.4	339.9	327.9	318.4	308.8	311.2
62.5°	366.2	354.3	327.9	299.3	289.6	272.9	261.0	249.0	253.7
65°	316.0	304.0	280.1	256.1	241.7	222.6	203.4	196.3	201.1
67.5°	270.5	261.0	237.0	213.1	201.1	179.5	160.4	160.4	162.8
70°	225.1	215.4	196.3	174.8	160.4	141.3	134.0	136.5	136.5
72.5°	184.3	177.2	158.0	138.9	124.5	112.5	112.5	114.9	117.4
75°	146.0	141.3	122.1	105.3	95.7	88.6	93.3	95.7	98.1
77.5°	112.5	105.3	91.0	78.9	71.8	74.2	78.9	81.4	83.8
80°	78.9	76.6	64.7	57.4	55.1	57.4	62.2	64.7	64.7
82.5°	50.3	47.9	40.7	38.3	38.3	40.7	45.5	45.5	45.5
85°	26.3	23.9	21.5	21.5	23.9	26.3	28.8	28.8	28.8
87.5°	9.6	7.1	9.6	9.6	12.0	12.0	12.0	12.0	12.0
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)