

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: P582249

Luminaire Tested: **HC630D010-HM63040935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582249
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-HM63040935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.3 lumens
Efficiency: N/A
Efficacy: 92.1 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

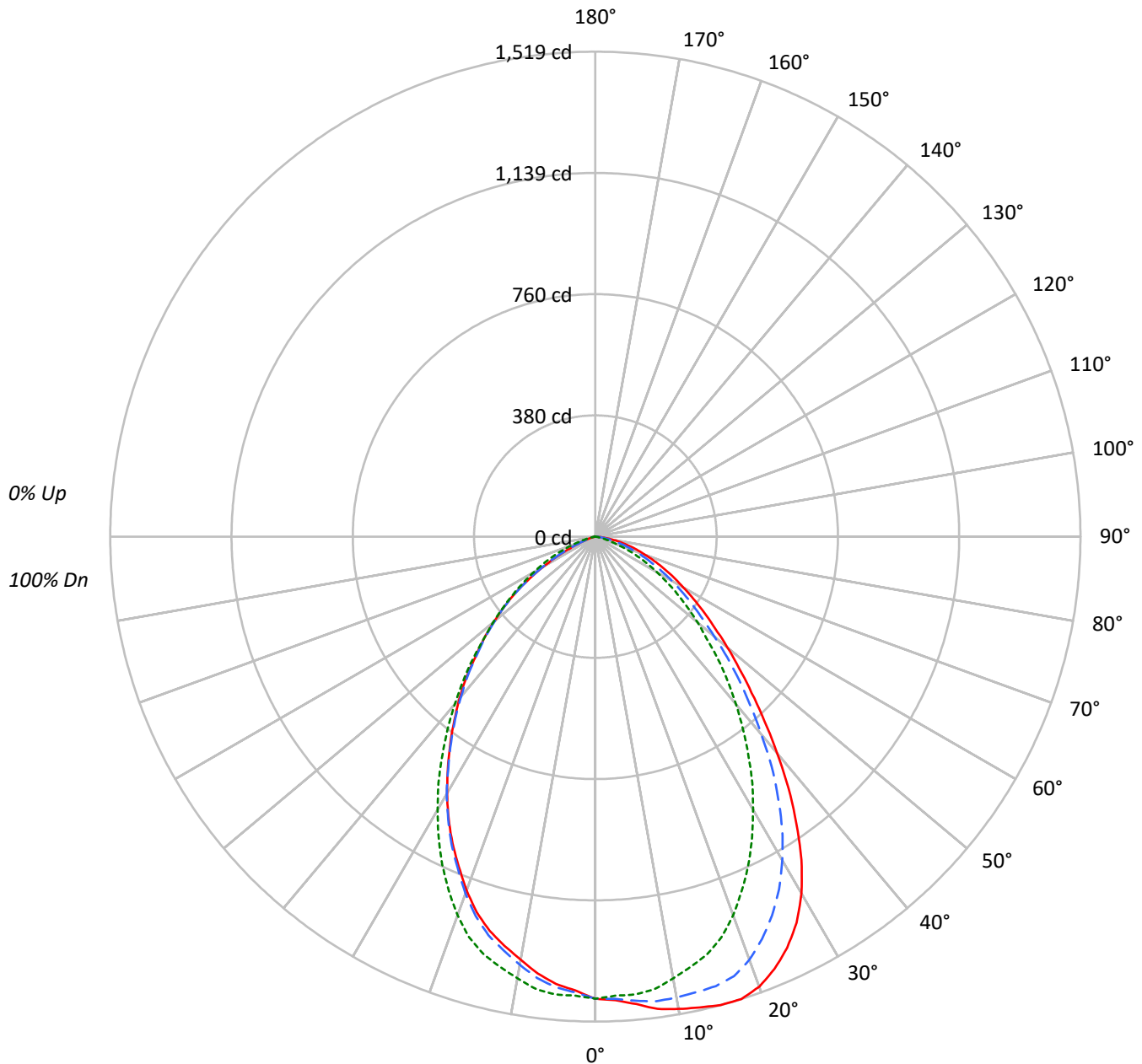
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79347	79347	79347
5°	80882	79204	77410
10°	83632	78194	74904
15°	86192	76834	72554
20°	87531	73629	68763
25°	85953	68587	64032
30°	81702	62497	58762
35°	73428	55861	52996
40°	63376	48949	47346
45°	53657	42136	41035
50°	46003	35589	35248
55°	39884	29963	28797
60°	34822	24329	20536
65°	30626	18757	11350
70°	26431	12406	5546
75°	22409	6037	2160
80°	17332	2557	1263
85°	10253	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	5.3
10°-20°	386.3	15.0
20°-30°	543.9	21.1
30°-40°	555.7	21.5
40°-50°	448.1	17.4
50°-60°	300.5	11.7
60°-70°	152.1	5.9
70°-80°	48.6	1.9
80°-90°	7.5	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°	1066.8	41.4
0°-40°	1622.5	62.9
0°-60°	2371.1	91.9
0°-90°	2579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1447	1447	1447	1447	1447	
5°	1470	1460	1439	1417	1407	142
15°	1519	1458	1354	1293	1278	429
25°	1421	1309	1134	1065	1059	651
35°	1097	998	835	788	792	683
45°	692	637	544	525	529	538
55°	417	370	314	299	301	375
65°	236	196	145	96	88	236
75°	106	75	28	10	10	114
85°	16	8	2	2	2	22
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°	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1453.6	1451.5	1449.5	1445.3	1439.3	1433.2	1429.1	1425.0	1423.0
5°	1469.8	1465.7	1459.6	1451.5	1439.3	1425.0	1416.9	1408.7	1406.7
7.5°	1492.2	1484.1	1467.8	1449.5	1429.1	1408.7	1394.5	1386.4	1380.2
10°	1502.4	1488.2	1465.7	1435.2	1404.7	1380.2	1361.9	1349.8	1345.6
12.5°	1510.5	1494.2	1461.6	1421.0	1380.2	1347.6	1327.3	1317.2	1313.0
15°	1518.7	1502.4	1457.6	1404.7	1353.8	1315.0	1292.7	1282.6	1278.4
17.5°	1518.7	1496.2	1443.3	1376.1	1315.0	1268.3	1245.8	1235.7	1233.7
20°	1500.4	1475.9	1410.7	1331.3	1262.1	1209.2	1188.9	1182.8	1178.7
22.5°	1465.7	1437.3	1363.9	1274.4	1199.1	1148.2	1125.7	1121.7	1117.7
25°	1421.0	1392.4	1309.0	1213.3	1133.9	1083.1	1064.7	1060.6	1058.6
27.5°	1363.9	1333.5	1245.8	1148.2	1062.6	1013.9	997.6	997.6	995.4
30°	1290.7	1256.1	1170.6	1072.8	987.3	942.5	930.4	930.4	928.3
32.5°	1201.1	1166.5	1089.1	995.4	914.1	867.3	857.0	861.1	859.1
35°	1097.2	1068.8	997.6	905.9	834.7	791.9	787.8	791.9	791.9
37.5°	993.4	967.0	905.9	826.5	759.3	720.7	720.7	726.7	724.7
40°	885.6	865.2	808.2	739.0	684.0	657.5	653.5	659.5	661.6
42.5°	783.8	767.5	718.6	661.6	612.8	586.3	592.4	596.5	598.5
45°	692.1	675.8	637.2	578.2	543.5	525.2	525.2	531.4	529.3
47.5°	610.7	598.5	559.8	502.8	472.3	464.2	468.2	472.3	472.3
50°	539.4	521.1	484.5	439.7	417.3	407.1	411.3	413.3	413.3
52.5°	472.3	460.0	423.4	382.7	362.4	356.2	356.2	358.2	358.2
55°	417.3	403.1	370.5	329.8	313.5	305.3	299.3	297.2	301.3
57.5°	364.4	352.2	321.6	283.0	264.7	256.5	244.3	240.2	244.3
60°	317.6	307.4	276.9	240.2	221.9	205.6	191.3	183.2	187.3
62.5°	276.9	264.7	234.1	203.6	183.2	164.9	142.6	130.3	136.4
65°	236.1	225.9	195.5	164.9	144.6	122.1	95.7	87.5	87.5
67.5°	199.5	189.3	160.9	134.4	110.0	83.5	59.1	57.0	59.1
70°	164.9	154.7	130.3	103.8	77.4	50.9	34.6	34.6	34.6
72.5°	136.4	124.1	101.8	75.3	48.9	26.5	18.3	20.3	20.3
75°	105.8	95.7	75.3	50.9	28.5	12.2	10.2	10.2	10.2
77.5°	79.4	71.2	52.9	32.6	14.3	4.0	4.0	4.0	4.0
80°	54.9	46.8	34.6	20.3	8.1	4.0	4.0	4.0	4.0
82.5°	32.6	28.5	20.3	10.2	4.0	2.0	2.0	2.0	2.0
85°	16.3	14.3	8.1	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



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)