

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: P580376

Luminaire Tested: **HC430D010-HM43040935-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040935-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2705.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

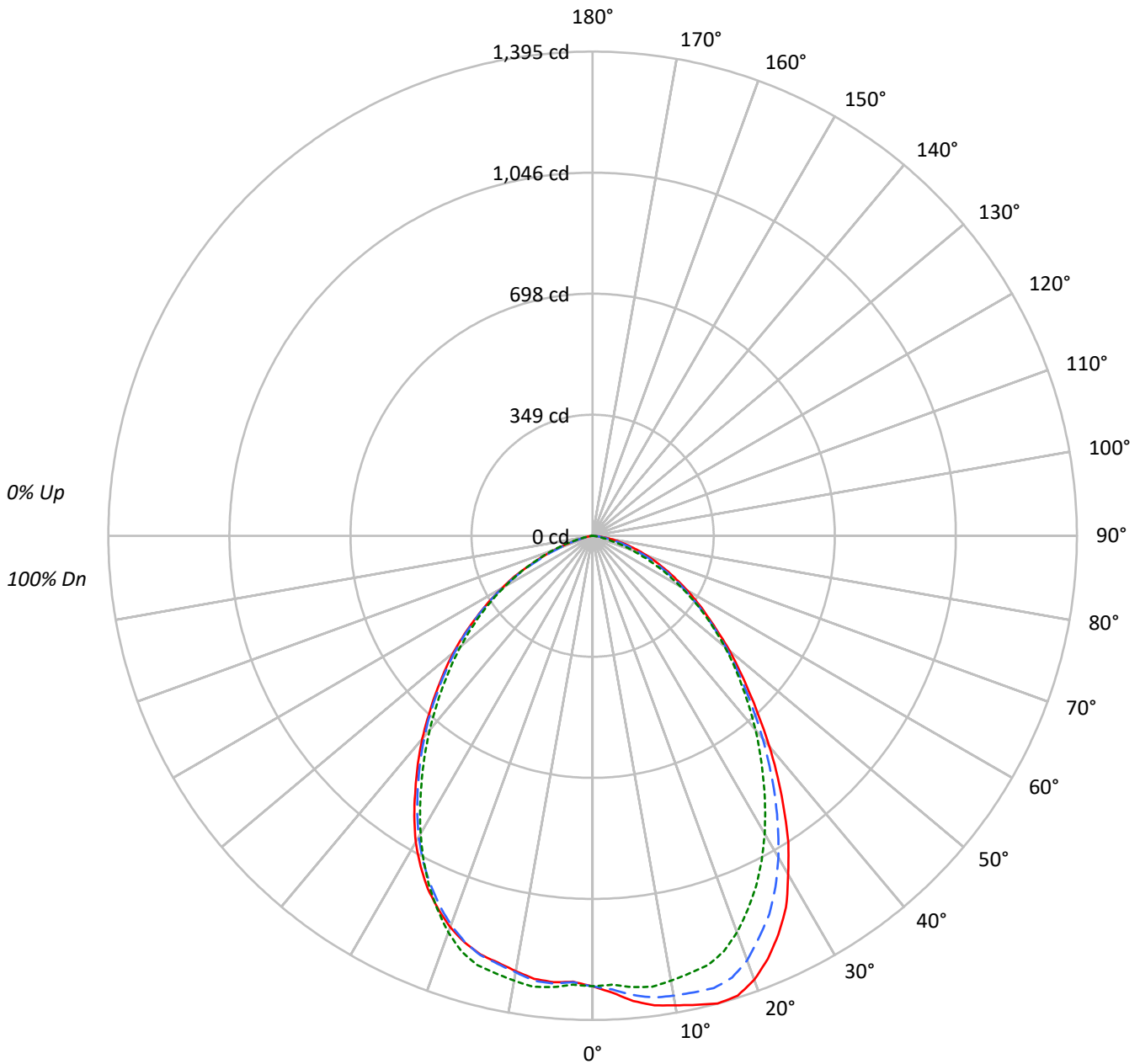
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76				76				
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				67				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41				41				
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	160127	160127	160127
5°	166608	161606	159872
10°	172041	163036	159516
15°	178099	163529	159493
20°	178700	159588	157514
25°	172380	151612	152810
30°	160416	141174	145176
35°	144494	129165	133923
40°	127396	117510	122872
45°	111396	105883	111099
50°	98632	95255	100321
55°	86771	84126	87524
60°	77461	71836	73983
65°	68091	58372	57351
70°	59469	43024	39201
75°	49373	25925	20921
80°	37434	9944	6251
85°	17407	2547	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.6
10°-20°	365.4	13.5
20°-30°	529.2	19.6
30°-40°	558.3	20.6
40°-50°	483.2	17.9
50°-60°	357.9	13.2
60°-70°	206.3	7.6
70°-80°	72.1	2.7
80°-90°	7.6	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°	1019.8	37.7
0°-40°	1578.1	58.3
0°-60°	2419.3	89.4
0°-90°	2705.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1298	1298	1298	1298	1298	
5°	1346	1328	1305	1295	1291	129
15°	1395	1349	1281	1251	1249	392
25°	1267	1204	1114	1107	1123	580
35°	960	916	858	877	889	599
45°	639	621	607	630	637	496
55°	404	395	391	405	407	364
65°	233	219	200	190	196	233
75°	104	88	54	44	44	111
85°	12	7	2	2	2	19
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°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1317.5	1314.0	1308.7	1301.7	1294.7	1289.4	1287.6	1285.9	1285.9
5°	1345.6	1338.5	1328.0	1314.0	1305.2	1299.9	1294.7	1291.2	1291.2
7.5°	1364.9	1357.9	1342.1	1322.7	1310.5	1299.9	1292.9	1287.6	1287.6
10°	1373.6	1364.9	1345.6	1321.0	1301.7	1287.6	1277.1	1273.6	1273.6
12.5°	1384.2	1373.6	1347.3	1315.7	1291.2	1273.6	1263.1	1259.6	1259.6
15°	1394.7	1382.4	1349.1	1312.2	1280.6	1259.6	1250.8	1249.0	1249.0
17.5°	1389.4	1373.6	1335.0	1291.2	1256.0	1235.0	1226.2	1226.2	1228.1
20°	1361.4	1345.6	1301.7	1252.5	1215.8	1200.0	1193.0	1196.5	1200.0
22.5°	1319.2	1299.9	1252.5	1205.2	1166.6	1152.6	1152.6	1157.9	1163.1
25°	1266.6	1249.0	1203.5	1150.8	1114.0	1103.4	1107.0	1115.7	1122.8
27.5°	1207.0	1187.7	1140.3	1091.2	1054.3	1049.0	1057.8	1070.1	1073.6
30°	1126.3	1110.5	1070.1	1022.8	991.2	989.5	1001.7	1010.5	1019.3
32.5°	1049.0	1031.6	993.0	947.3	924.5	926.3	940.3	950.8	956.1
35°	959.6	943.8	915.7	878.9	857.8	861.3	877.1	887.6	889.4
37.5°	875.4	864.8	836.8	808.8	793.0	800.0	814.0	826.3	826.3
40°	791.2	782.4	761.4	738.6	729.8	738.6	752.6	763.1	763.1
42.5°	710.5	705.2	687.7	671.9	666.6	678.9	691.2	699.9	698.2
45°	638.6	633.3	621.1	608.8	607.0	619.3	629.8	635.1	636.9
47.5°	573.7	570.2	559.6	550.8	550.8	563.1	571.9	577.2	578.9
50°	514.0	510.5	501.7	494.7	496.4	508.7	515.7	521.0	522.8
52.5°	454.4	452.7	445.6	436.9	442.1	450.9	459.7	463.2	464.8
55°	403.5	403.5	394.7	387.7	391.2	400.0	405.3	407.0	407.0
57.5°	357.9	356.1	345.6	338.6	340.3	349.1	352.6	354.4	354.4
60°	314.0	312.2	301.7	291.2	291.2	296.4	298.2	299.9	299.9
62.5°	272.0	270.2	257.9	249.1	245.6	243.9	243.9	247.4	254.4
65°	233.3	231.6	219.3	205.3	200.0	194.7	189.5	193.0	196.5
67.5°	198.2	194.7	182.4	170.2	157.9	149.1	140.3	145.6	152.6
70°	164.9	161.4	147.3	133.3	119.3	105.2	98.2	105.2	108.7
72.5°	133.3	129.8	115.7	101.7	84.3	70.2	68.5	70.2	72.0
75°	103.6	101.7	87.8	72.0	54.4	43.9	43.9	43.9	43.9
77.5°	77.2	73.7	59.7	45.6	31.6	24.6	22.8	22.8	22.8
80°	52.7	49.1	36.9	26.3	14.0	10.5	10.5	8.8	8.8
82.5°	29.8	28.1	19.3	10.5	5.3	3.5	3.5	3.5	3.5
85°	12.3	10.5	7.0	3.5	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	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)