

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: P580126

Luminaire Tested: **HC425D010-HM40525827-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525827-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1792.3 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

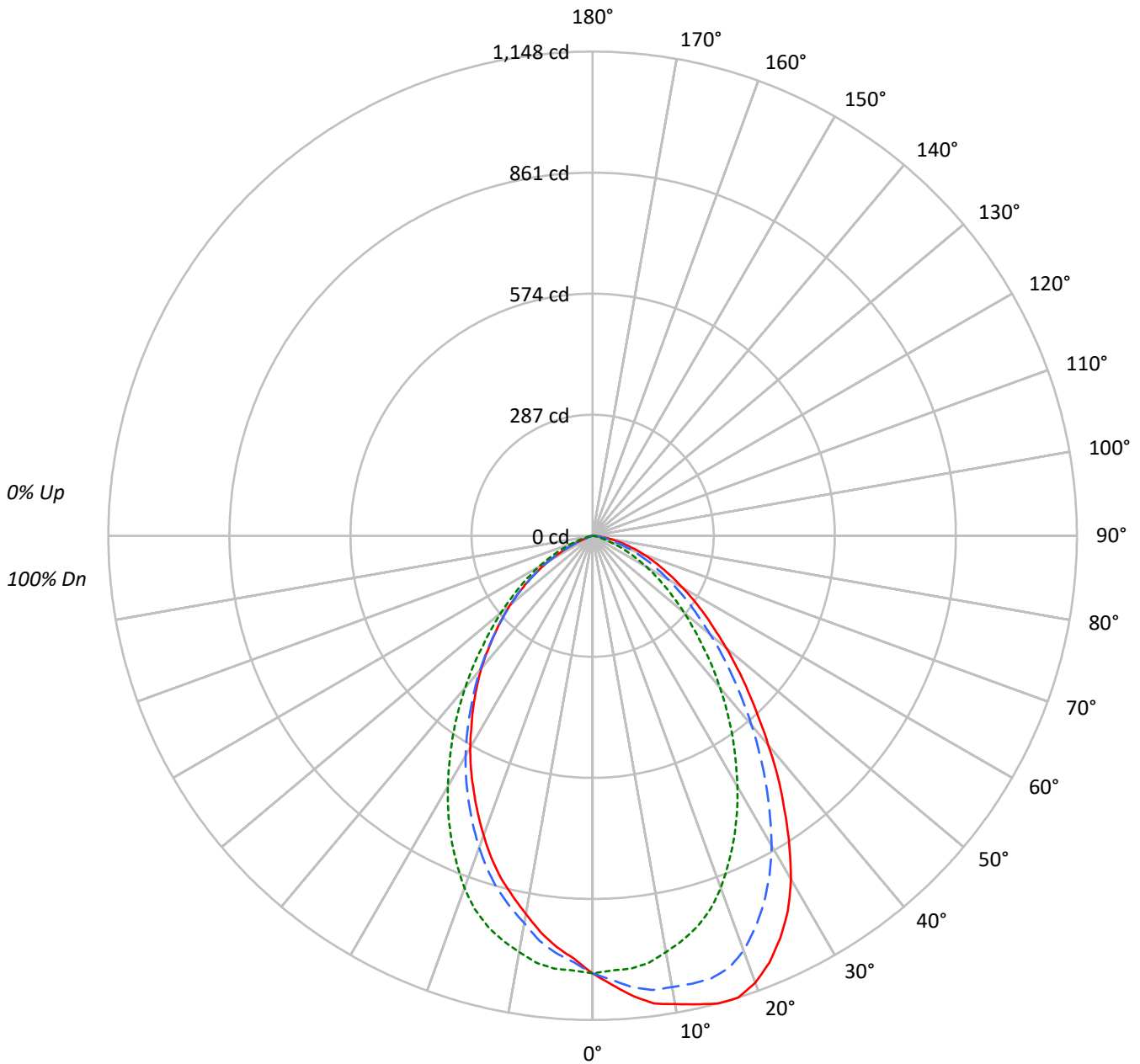
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				89				
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78				
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69				69				
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61				61				
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55				55				
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49				49				
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44				44				
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40				40				
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37				37				
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34				34				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	127983	127983	127983
5°	135592	127556	121155
10°	141230	125524	114064
15°	146634	122512	107253
20°	148011	116626	99181
25°	143215	107870	90790
30°	133910	97748	82622
35°	119347	86898	74220
40°	104322	75565	66065
45°	90882	64106	57146
50°	79290	54382	49009
55°	69503	45052	39676
60°	60809	36412	29134
65°	52973	27143	16373
70°	46306	17563	5337
75°	37983	9150	1382
80°	28342	4191	1065
85°	16841	2123	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	5.5
10°-20°	274.1	15.3
20°-30°	378.9	21.1
30°-40°	381.0	21.3
40°-50°	307.5	17.2
50°-60°	207.9	11.6
60°-70°	105.8	5.9
70°-80°	33.9	1.9
80°-90°	5.2	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°	751.0	41.9
0°-40°	1132.0	63.2
0°-60°	1647.4	91.9
0°-90°	1792.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1038	1038	1038	1038	1038	
5°	1095	1074	1030	993	978	106
15°	1148	1086	959	868	840	323
25°	1052	961	793	695	667	482
35°	793	716	577	505	493	495
45°	521	466	368	328	328	404
55°	323	279	210	183	184	290
65°	182	148	93	60	56	182
75°	80	56	19	4	3	86
85°	12	6	2	2	2	16
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°	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6
2.5°	1065.7	1059.8	1053.8	1043.5	1031.7	1019.9	1012.5	1006.6	1003.7
5°	1095.1	1087.8	1074.5	1052.3	1030.2	1009.6	993.3	983.0	978.5
7.5°	1118.7	1108.5	1086.3	1055.3	1021.4	988.9	968.2	953.4	947.6
10°	1127.6	1115.8	1086.3	1045.0	1002.2	962.4	932.8	918.0	910.7
12.5°	1137.9	1124.7	1087.8	1036.1	983.0	935.7	901.8	882.7	875.2
15°	1148.3	1130.6	1086.3	1022.9	959.4	904.8	867.9	848.7	839.9
17.5°	1148.3	1127.6	1074.5	1000.7	928.4	870.8	829.5	807.3	800.0
20°	1127.6	1104.0	1046.5	965.3	888.5	826.5	786.7	764.6	755.6
22.5°	1095.1	1068.6	1006.6	922.5	841.3	780.8	741.0	720.3	711.4
25°	1052.3	1025.8	960.9	873.7	792.6	732.0	695.1	675.9	667.1
27.5°	1002.2	972.6	907.7	820.7	741.0	683.4	649.4	631.7	624.3
30°	940.2	912.1	848.7	763.1	686.3	633.1	602.2	586.0	580.1
32.5°	867.9	844.3	782.3	702.6	630.2	581.5	553.4	540.2	534.2
35°	792.6	770.4	715.8	642.1	577.1	531.3	504.8	496.0	492.9
37.5°	721.8	702.6	649.4	581.5	522.5	482.6	459.1	453.1	450.1
40°	647.9	634.6	586.0	524.0	469.3	434.0	414.8	410.3	410.3
42.5°	581.5	566.8	524.0	467.9	419.2	383.7	370.4	366.0	367.5
45°	521.0	506.2	466.4	414.8	367.5	338.0	327.6	327.6	327.6
47.5°	464.9	451.6	414.8	361.6	323.2	299.6	289.2	289.2	290.7
50°	413.2	404.4	363.1	317.4	283.4	261.3	253.9	252.4	255.4
52.5°	364.6	354.3	317.4	276.0	243.5	225.8	218.5	217.0	218.5
55°	323.2	311.4	279.0	239.1	209.5	191.9	183.0	181.5	184.5
57.5°	283.4	274.6	240.6	205.1	177.1	159.4	152.1	149.0	150.5
60°	246.5	237.7	206.6	172.7	147.6	129.8	119.6	116.6	118.1
62.5°	212.6	205.1	175.7	143.2	118.1	101.8	91.6	84.1	87.0
65°	181.5	174.2	147.6	115.2	93.0	75.3	60.5	54.6	56.1
67.5°	155.0	146.1	121.0	91.6	69.3	50.1	34.0	31.0	31.0
70°	128.4	119.6	97.4	70.9	48.7	26.5	14.8	14.8	14.8
72.5°	103.3	96.0	75.3	53.2	31.0	11.9	5.9	5.9	5.9
75°	79.7	73.8	56.1	36.9	19.2	5.9	4.4	2.9	2.9
77.5°	59.0	53.2	39.9	25.1	11.9	2.9	2.9	2.9	2.9
80°	39.9	35.5	26.5	14.8	5.9	1.5	1.5	1.5	1.5
82.5°	23.6	20.7	14.8	7.3	2.9	1.5	1.5	1.5	1.5
85°	11.9	8.8	5.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	2.9	1.5	1.5	1.5	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)