

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: P580195

Luminaire Tested: **HC425D010-HM40525927-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525927-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1881.9 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

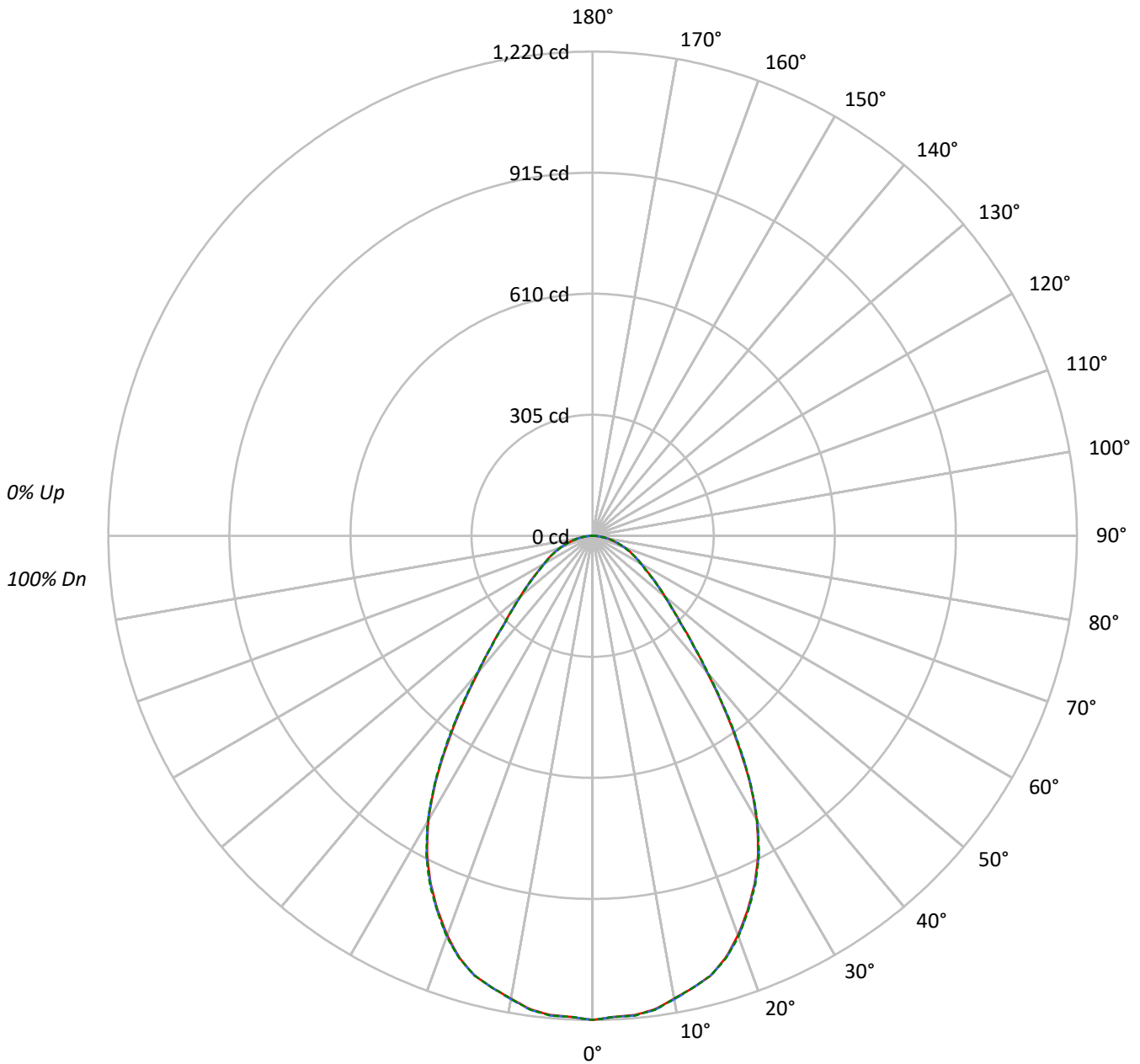
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	150457	150457	150457
5°	150091	150239	150239
10°	148344	148507	148344
15°	146558	146558	146558
20°	140542	140883	141054
25°	131470	131633	131973
30°	117802	118158	118158
35°	95647	96384	96595
40°	72167	72586	72795
45°	55279	55070	55070
50°	45555	45306	45306
55°	39117	38816	38816
60°	34907	34561	34561
65°	32776	32776	32776
70°	30510	30510	30510
75°	27641	28308	27641
80°	25998	25074	25998
85°	21370	21370	21370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	6.1
10°-20°	321.6	17.1
20°-30°	441.9	23.5
30°-40°	397.4	21.1
40°-50°	251.1	13.3
50°-60°	163.9	8.7
60°-70°	111.0	5.9
70°-80°	62.5	3.3
80°-90°	17.5	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°	878.5	46.7
0°-40°	1275.8	67.8
0°-60°	1690.8	89.8
0°-90°	1881.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1881.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1212	1212	1213	1213	1213	115
15°	1148	1148	1148	1148	1148	321
25°	966	967	967	970	970	441
35°	635	638	640	643	642	395
45°	317	316	316	316	316	251
55°	182	182	180	182	180	165
65°	112	112	112	112	112	111
75°	58	59	59	59	58	62
85°	15	15	15	15	15	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1213.4	1213.4	1213.4	1213.4	1213.4
5°	1212.2	1212.2	1213.4	1213.4	1213.4
7.5°	1203.3	1204.6	1204.6	1204.6	1204.6
10°	1184.4	1184.4	1185.7	1185.7	1184.4
12.5°	1166.7	1166.7	1166.7	1168.0	1166.7
15°	1147.7	1147.7	1147.7	1147.7	1147.7
17.5°	1115.0	1116.2	1116.2	1116.2	1116.2
20°	1070.7	1073.3	1073.3	1074.6	1074.6
22.5°	1020.3	1021.5	1022.8	1024.0	1022.8
25°	966.0	967.2	967.2	969.7	969.7
27.5°	902.9	904.1	906.6	906.6	906.6
30°	827.1	828.3	829.6	829.6	829.6
32.5°	737.5	737.5	739.9	741.2	739.9
35°	635.2	637.7	640.1	642.7	641.5
37.5°	537.9	540.5	541.7	541.7	542.9
40°	448.2	450.8	450.8	453.3	452.1
42.5°	377.5	376.3	376.3	378.8	377.5
45°	316.9	315.7	315.7	315.7	315.7
47.5°	272.8	271.5	271.5	271.5	271.5
50°	237.4	236.1	236.1	236.1	236.1
52.5°	208.3	207.1	207.1	207.1	205.8
55°	181.9	181.9	180.5	181.9	180.5
57.5°	157.8	157.8	157.8	157.8	157.8
60°	141.5	140.1	140.1	140.1	140.1
62.5°	126.2	126.2	126.2	126.2	126.2
65°	112.3	112.3	112.3	112.3	112.3
67.5°	98.4	97.2	98.4	98.4	97.2
70°	84.6	83.3	84.6	84.6	84.6
72.5°	70.7	70.7	70.7	71.9	70.7
75°	58.0	59.4	59.4	59.4	58.0
77.5°	46.7	48.0	46.7	46.7	46.7
80°	36.6	35.3	35.3	35.3	36.6
82.5°	25.3	25.3	25.3	25.3	25.3
85°	15.1	15.1	15.1	15.1	15.1
87.5°	6.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)