

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: P581437

Luminaire Tested: **HC407D010-HM40525830-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581437
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: HC407D010-HM40525830-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

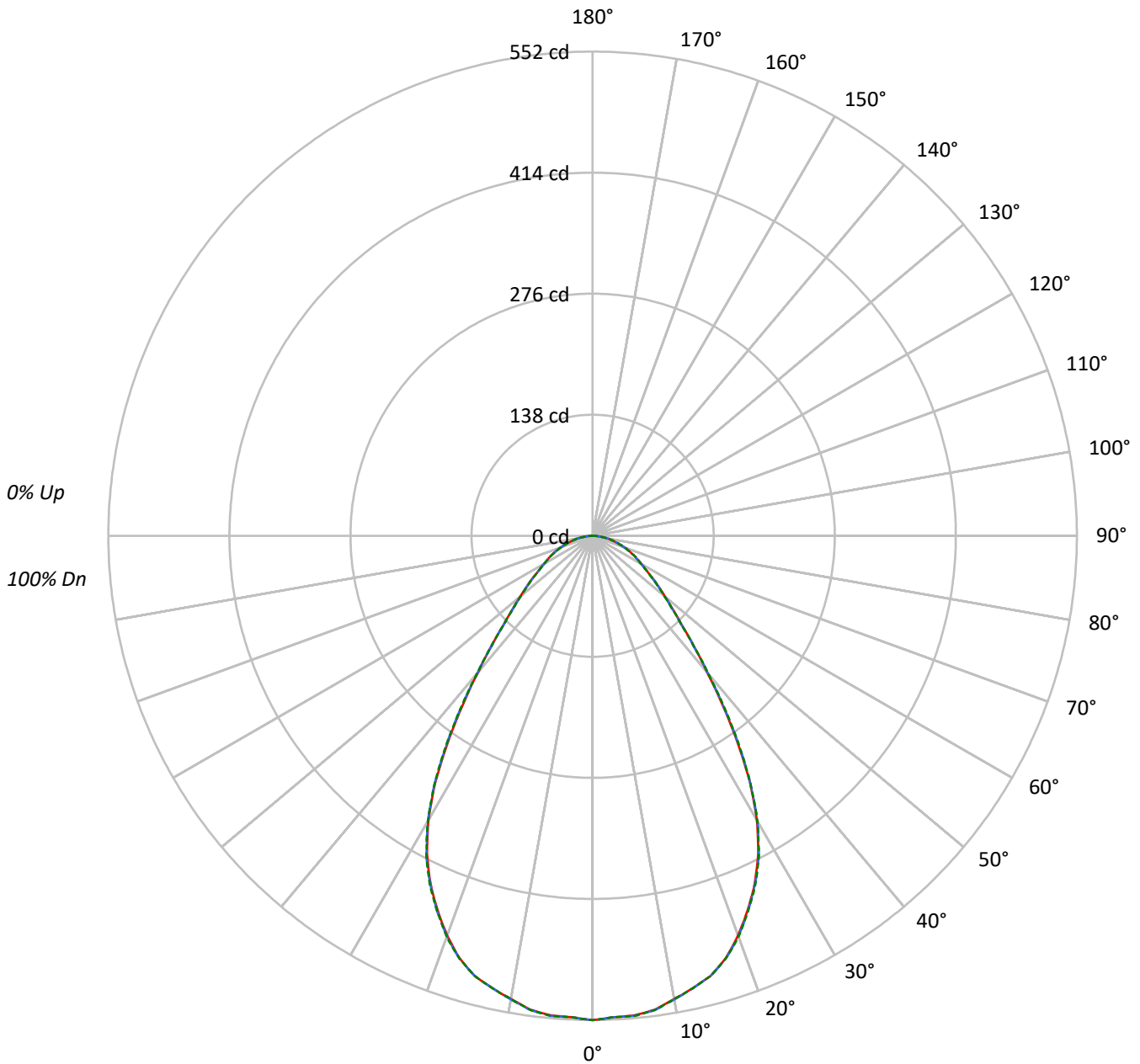
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	68124	68124	68124
5°	67963	68025	68025
10°	67158	67233	67158
15°	66351	66351	66351
20°	63636	63780	63859
25°	59515	59597	59747
30°	53325	53481	53481
35°	43306	43637	43728
40°	32670	32847	32944
45°	25032	24927	24927
50°	20609	20513	20513
55°	17698	17569	17569
60°	15813	15665	15665
65°	14856	14856	14856
70°	13849	13849	13849
75°	12534	12820	12534
80°	11791	11365	11791
85°	9624	9624	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	6.1
10°-20°	145.6	17.1
20°-30°	200.1	23.5
30°-40°	179.9	21.1
40°-50°	113.7	13.3
50°-60°	74.2	8.7
60°-70°	50.3	5.9
70°-80°	28.3	3.3
80°-90°	7.9	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°	397.7	46.7
0°-40°	577.6	67.8
0°-60°	765.5	89.8
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	549	549	549	549	549	52
15°	520	520	520	520	520	145
25°	437	438	438	439	439	200
35°	288	289	290	291	290	179
45°	144	143	143	143	143	114
55°	82	82	82	82	82	74
65°	51	51	51	51	51	50
75°	26	27	27	27	26	28
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.3	552.3	552.3	552.3	552.3
2.5°	549.4	549.4	549.4	549.4	549.4
5°	548.9	548.9	549.4	549.4	549.4
7.5°	544.8	545.3	545.3	545.3	545.3
10°	536.2	536.2	536.8	536.8	536.2
12.5°	528.3	528.3	528.3	528.8	528.3
15°	519.6	519.6	519.6	519.6	519.6
17.5°	504.8	505.4	505.4	505.4	505.4
20°	484.8	485.9	485.9	486.5	486.5
22.5°	461.9	462.5	463.1	463.6	463.1
25°	437.3	437.9	437.9	439.0	439.0
27.5°	408.8	409.3	410.5	410.5	410.5
30°	374.4	375.0	375.5	375.5	375.5
32.5°	333.9	333.9	335.0	335.6	335.0
35°	287.6	288.7	289.8	291.0	290.4
37.5°	243.5	244.7	245.2	245.2	245.8
40°	202.9	204.0	204.0	205.2	204.6
42.5°	170.9	170.4	170.4	171.5	170.9
45°	143.5	142.9	142.9	142.9	142.9
47.5°	123.5	122.9	122.9	122.9	122.9
50°	107.4	106.9	106.9	106.9	106.9
52.5°	94.3	93.8	93.8	93.8	93.2
55°	82.3	82.3	81.7	82.3	81.7
57.5°	71.5	71.5	71.5	71.5	71.5
60°	64.1	63.5	63.5	63.5	63.5
62.5°	57.1	57.1	57.1	57.1	57.1
65°	50.9	50.9	50.9	50.9	50.9
67.5°	44.6	44.0	44.6	44.6	44.0
70°	38.4	37.8	38.4	38.4	38.4
72.5°	32.0	32.0	32.0	32.5	32.0
75°	26.3	26.9	26.9	26.9	26.3
77.5°	21.2	21.7	21.2	21.2	21.2
80°	16.6	16.0	16.0	16.0	16.6
82.5°	11.4	11.4	11.4	11.4	11.4
85°	6.8	6.8	6.8	6.8	6.8
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)