

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: P581455

Luminaire Tested: **HC407D010-HM40525835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581455
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-HM40525835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 883.3 lumens
Efficiency: N/A
Efficacy: 110.4 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

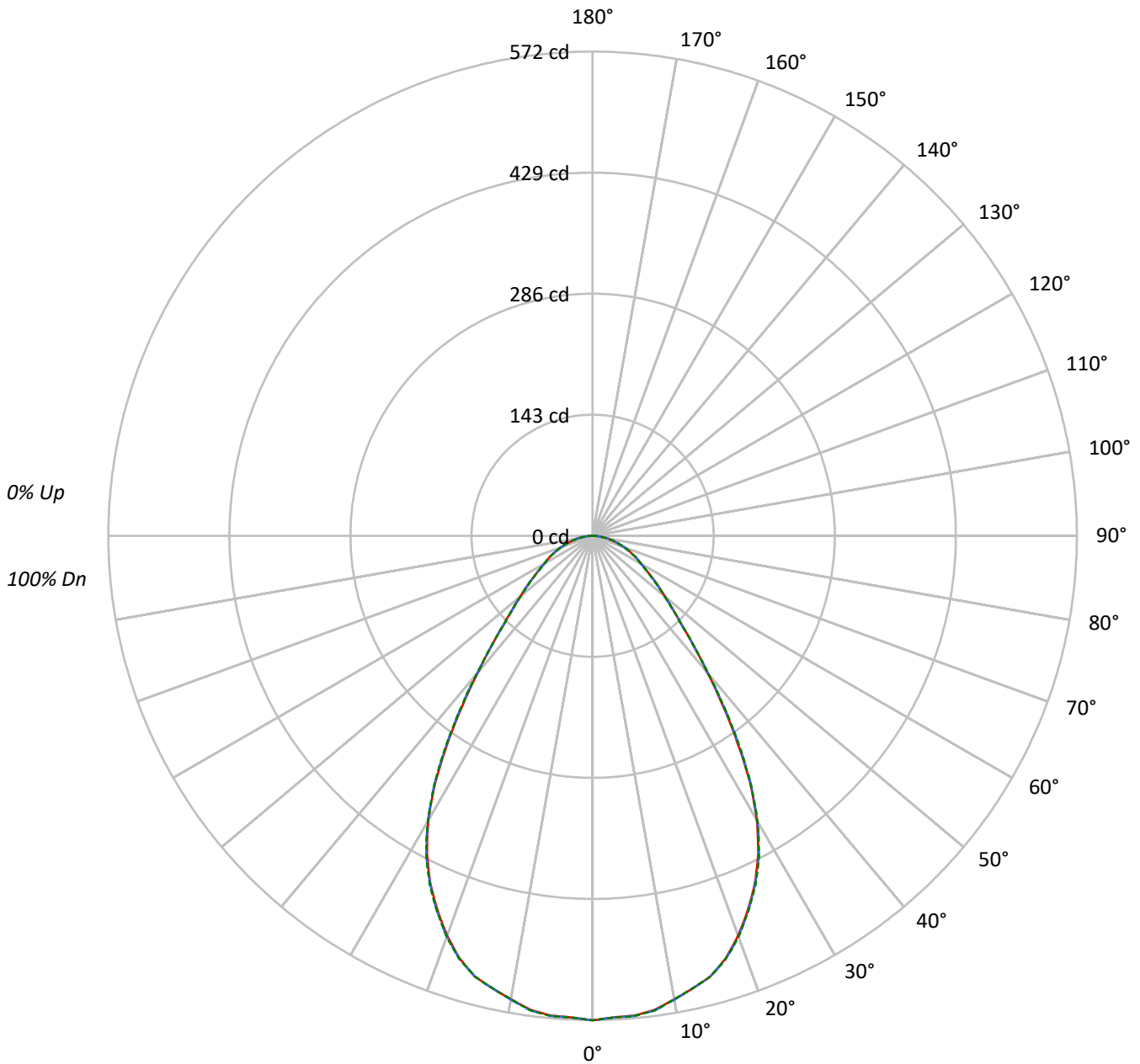
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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								
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	67	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°	70603	70603	70603
5°	70439	70514	70514
10°	69613	69688	69613
15°	68777	68777	68777
20°	65959	66117	66182
25°	61693	61774	61938
30°	55290	55447	55447
35°	44872	45233	45324
40°	33878	34071	34152
45°	25939	25852	25852
50°	21377	21262	21262
55°	18365	18236	18236
60°	16356	16232	16232
65°	15381	15381	15381
70°	14317	14317	14317
75°	13010	13296	13010
80°	12217	11791	12217
85°	10048	10048	10048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	6.1
10°-20°	150.9	17.1
20°-30°	207.4	23.5
30°-40°	186.5	21.1
40°-50°	117.9	13.3
50°-60°	77.0	8.7
60°-70°	52.1	5.9
70°-80°	29.4	3.3
80°-90°	8.2	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°	412.3	46.7
0°-40°	598.7	67.8
0°-60°	793.5	89.8
0°-90°	883.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	569	569	570	570	570	54
15°	539	539	539	539	539	151
25°	453	454	454	455	455	207
35°	298	299	300	302	301	186
45°	149	148	148	148	148	118
55°	85	85	85	85	85	77
65°	53	53	53	53	53	52
75°	27	28	28	28	27	29
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°	572.4	572.4	572.4	572.4	572.4
2.5°	569.5	569.5	569.5	569.5	569.5
5°	568.9	568.9	569.5	569.5	569.5
7.5°	564.7	565.4	565.4	565.4	565.4
10°	555.8	555.8	556.4	556.4	555.8
12.5°	547.5	547.5	547.5	548.2	547.5
15°	538.6	538.6	538.6	538.6	538.6
17.5°	523.3	523.8	523.8	523.8	523.8
20°	502.5	503.7	503.7	504.2	504.2
22.5°	478.8	479.4	480.0	480.6	480.0
25°	453.3	453.9	453.9	455.1	455.1
27.5°	423.7	424.2	425.5	425.5	425.5
30°	388.2	388.7	389.3	389.3	389.3
32.5°	346.1	346.1	347.2	347.9	347.2
35°	298.0	299.3	300.4	301.6	301.0
37.5°	252.4	253.7	254.2	254.2	254.8
40°	210.4	211.6	211.6	212.7	212.1
42.5°	177.2	176.6	176.6	177.8	177.2
45°	148.7	148.2	148.2	148.2	148.2
47.5°	128.0	127.5	127.5	127.5	127.5
50°	111.4	110.8	110.8	110.8	110.8
52.5°	97.8	97.2	97.2	97.2	96.6
55°	85.4	85.4	84.8	85.4	84.8
57.5°	74.1	74.1	74.1	74.1	74.1
60°	66.3	65.8	65.8	65.8	65.8
62.5°	59.3	59.3	59.3	59.3	59.3
65°	52.7	52.7	52.7	52.7	52.7
67.5°	46.2	45.6	46.2	46.2	45.6
70°	39.7	39.1	39.7	39.7	39.7
72.5°	33.2	33.2	33.2	33.8	33.2
75°	27.3	27.9	27.9	27.9	27.3
77.5°	22.0	22.5	22.0	22.0	22.0
80°	17.2	16.6	16.6	16.6	17.2
82.5°	11.8	11.8	11.8	11.8	11.8
85°	7.1	7.1	7.1	7.1	7.1
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)