

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: P581293

Luminaire Tested: **HC460D010-HM44560830-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581293
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: HC460D010-HM44560830-41WDW
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: 5082.3 lumens
Efficiency: N/A
Efficacy: 92.4 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

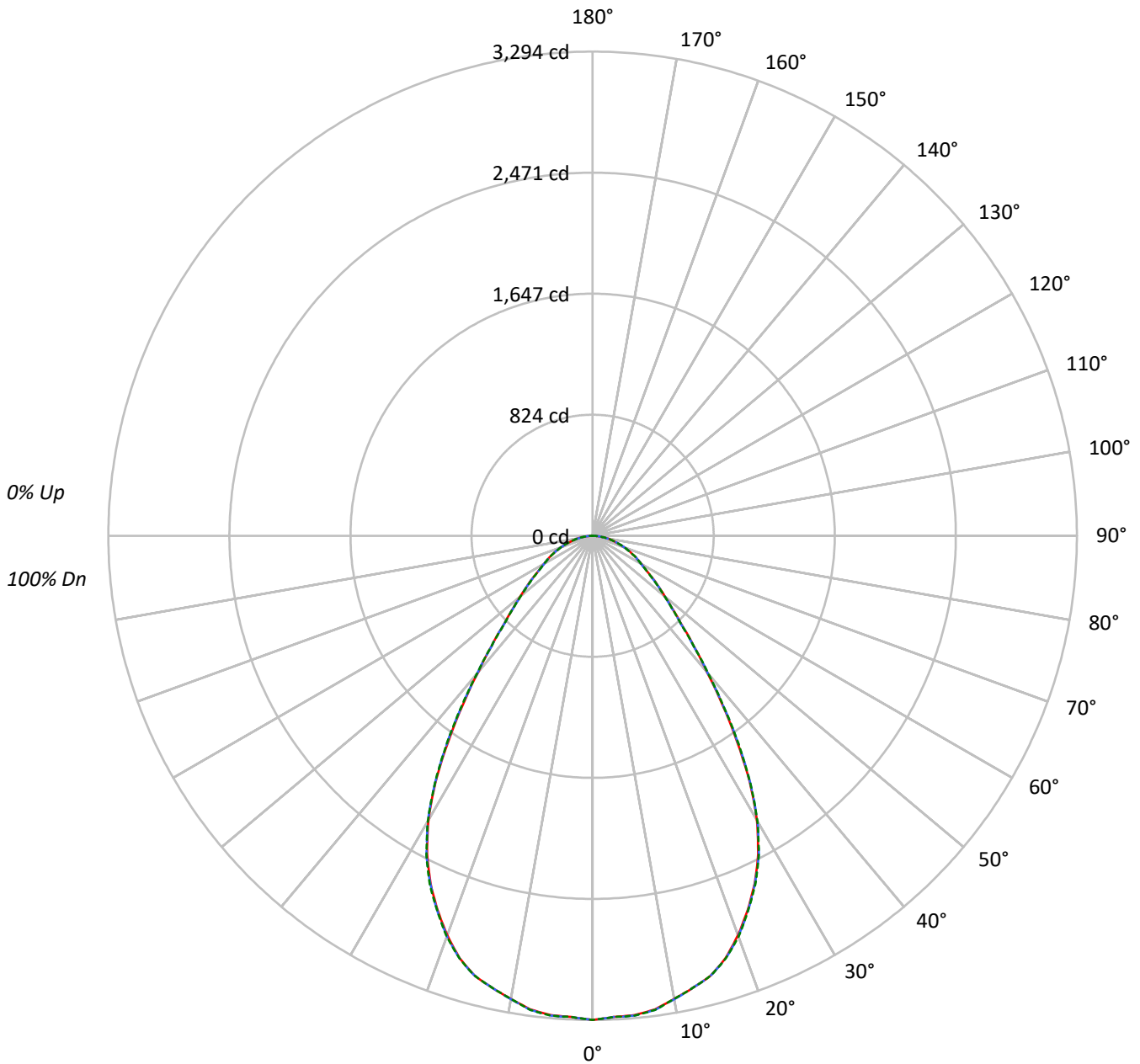
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	406300	406300	406300
5°	405327	405748	405748
10°	400620	401033	400620
15°	395809	395809	395809
20°	379556	380462	380908
25°	355022	355485	356424
30°	318126	319080	319080
35°	258270	260333	260845
40°	194926	196005	196553
45°	149301	148708	148708
50°	123003	122369	122369
55°	105588	104857	104857
60°	94211	93397	93397
65°	88551	88551	88551
70°	82370	82370	82370
75°	74774	76394	74774
80°	70251	67764	70251
85°	57883	57883	57883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	6.1
10°-20°	868.5	17.1
20°-30°	1193.5	23.5
30°-40°	1073.1	21.1
40°-50°	678.1	13.3
50°-60°	442.7	8.7
60°-70°	299.9	5.9
70°-80°	168.8	3.3
80°-90°	47.4	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°	2372.3	46.7
0°-40°	3445.4	67.8
0°-60°	4566.2	89.8
0°-90°	5082.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3294	3294	3294	3294	3294	
5°	3274	3274	3277	3277	3277	310
15°	3100	3100	3100	3100	3100	868
25°	2609	2612	2612	2619	2619	1191
35°	1715	1722	1729	1736	1732	1068
45°	856	852	852	852	852	679
55°	491	491	488	491	488	444
65°	303	303	303	303	303	301
75°	157	160	160	160	157	168
85°	41	41	41	41	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3277.0	3277.0	3277.0	3277.0	3277.0
5°	3273.6	3273.6	3277.0	3277.0	3277.0
7.5°	3249.8	3253.2	3253.2	3253.2	3253.2
10°	3198.6	3198.6	3201.9	3201.9	3198.6
12.5°	3150.8	3150.8	3150.8	3154.2	3150.8
15°	3099.6	3099.6	3099.6	3099.6	3099.6
17.5°	3011.0	3014.5	3014.5	3014.5	3014.5
20°	2891.6	2898.5	2898.5	2901.9	2901.9
22.5°	2755.3	2758.6	2762.1	2765.5	2762.1
25°	2608.6	2612.0	2612.0	2618.9	2618.9
27.5°	2438.2	2441.6	2448.3	2448.3	2448.3
30°	2233.6	2236.9	2240.3	2240.3	2240.3
32.5°	1991.5	1991.5	1998.3	2001.6	1998.3
35°	1715.2	1722.0	1728.9	1735.7	1732.3
37.5°	1452.6	1459.5	1462.9	1462.9	1466.3
40°	1210.6	1217.3	1217.3	1224.2	1220.7
42.5°	1019.6	1016.2	1016.2	1023.0	1019.6
45°	855.9	852.5	852.5	852.5	852.5
47.5°	736.6	733.2	733.2	733.2	733.2
50°	641.0	637.7	637.7	637.7	637.7
52.5°	562.6	559.3	559.3	559.3	555.9
55°	491.0	491.0	487.6	491.0	487.6
57.5°	426.3	426.3	426.3	426.3	426.3
60°	381.9	378.6	378.6	378.6	378.6
62.5°	341.0	341.0	341.0	341.0	341.0
65°	303.4	303.4	303.4	303.4	303.4
67.5°	266.0	262.6	266.0	266.0	262.6
70°	228.4	225.0	228.4	228.4	228.4
72.5°	191.0	191.0	191.0	194.4	191.0
75°	156.9	160.3	160.3	160.3	156.9
77.5°	126.2	129.6	126.2	126.2	126.2
80°	98.9	95.4	95.4	95.4	98.9
82.5°	68.2	68.2	68.2	68.2	68.2
85°	40.9	40.9	40.9	40.9	40.9
87.5°	17.0	17.0	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)