

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: P592956

Luminaire Tested: **HC460D010-HM44560850-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592956
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-HM44560850-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5824.9 lumens
Efficiency: N/A
Efficacy: 105.9 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

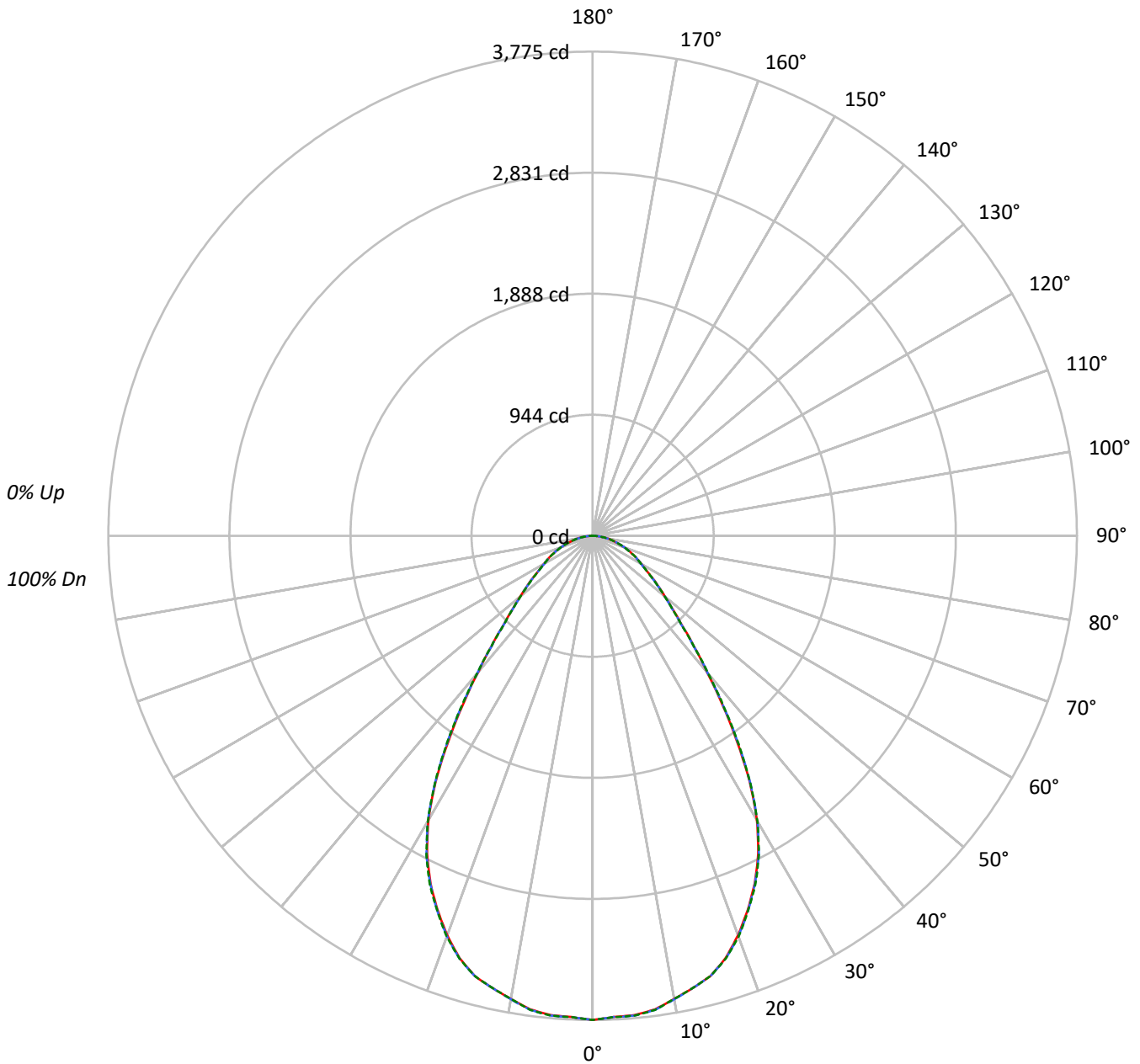
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	465667	465667	465667
5°	464536	465031	465031
10°	459148	459624	459148
15°	453643	453643	453643
20°	435027	436051	436563
25°	406902	407433	408495
30°	364600	365710	365710
35°	296005	298354	298956
40°	223394	224650	225294
45°	171105	170442	170442
50°	141002	140234	140234
55°	121028	120190	120190
60°	107977	107015	107015
65°	101538	101538	101538
70°	94415	94415	94415
75°	85687	87498	85687
80°	80550	77709	80550
85°	66374	66374	66374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	6.1
10°-20°	995.4	17.1
20°-30°	1367.8	23.5
30°-40°	1229.9	21.1
40°-50°	777.1	13.3
50°-60°	507.4	8.7
60°-70°	343.8	5.9
70°-80°	193.5	3.3
80°-90°	54.3	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°	2718.9	46.7
0°-40°	3948.8	67.8
0°-60°	5233.3	89.8
0°-90°	5824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5824.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3775	3775	3775	3775	3775	
5°	3752	3752	3756	3756	3756	355
15°	3552	3552	3552	3552	3552	995
25°	2990	2994	2994	3002	3002	1365
35°	1966	1974	1981	1989	1985	1224
45°	981	977	977	977	977	778
55°	563	563	559	563	559	509
65°	348	348	348	348	348	345
75°	180	184	184	184	180	193
85°	47	47	47	47	47	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3775.3	3775.3	3775.3	3775.3	3775.3
2.5°	3755.8	3755.8	3755.8	3755.8	3755.8
5°	3751.8	3751.8	3755.8	3755.8	3755.8
7.5°	3724.5	3728.4	3728.4	3728.4	3728.4
10°	3665.9	3665.9	3669.7	3669.7	3665.9
12.5°	3611.2	3611.2	3611.2	3615.0	3611.2
15°	3552.5	3552.5	3552.5	3552.5	3552.5
17.5°	3450.9	3454.8	3454.8	3454.8	3454.8
20°	3314.2	3322.0	3322.0	3325.9	3325.9
22.5°	3157.8	3161.7	3165.6	3169.6	3165.6
25°	2989.8	2993.7	2993.7	3001.5	3001.5
27.5°	2794.4	2798.2	2806.1	2806.1	2806.1
30°	2559.9	2563.7	2567.7	2567.7	2567.7
32.5°	2282.4	2282.4	2290.2	2294.1	2290.2
35°	1965.8	1973.7	1981.4	1989.2	1985.4
37.5°	1664.9	1672.7	1676.7	1676.7	1680.5
40°	1387.4	1395.2	1395.2	1403.0	1399.2
42.5°	1168.5	1164.7	1164.7	1172.4	1168.5
45°	980.9	977.1	977.1	977.1	977.1
47.5°	844.2	840.2	840.2	840.2	840.2
50°	734.8	730.8	730.8	730.8	730.8
52.5°	644.9	640.9	640.9	640.9	637.0
55°	562.8	562.8	558.9	562.8	558.9
57.5°	488.5	488.5	488.5	488.5	488.5
60°	437.7	433.8	433.8	433.8	433.8
62.5°	390.9	390.9	390.9	390.9	390.9
65°	347.9	347.9	347.9	347.9	347.9
67.5°	304.8	301.0	304.8	304.8	301.0
70°	261.8	258.0	261.8	261.8	261.8
72.5°	218.8	218.8	218.8	222.8	218.8
75°	179.8	183.6	183.6	183.6	179.8
77.5°	144.6	148.6	144.6	144.6	144.6
80°	113.4	109.4	109.4	109.4	113.4
82.5°	78.2	78.2	78.2	78.2	78.2
85°	46.9	46.9	46.9	46.9	46.9
87.5°	19.5	19.5	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)