

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: P582536

Luminaire Tested: **HC640D010-HM63040935-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

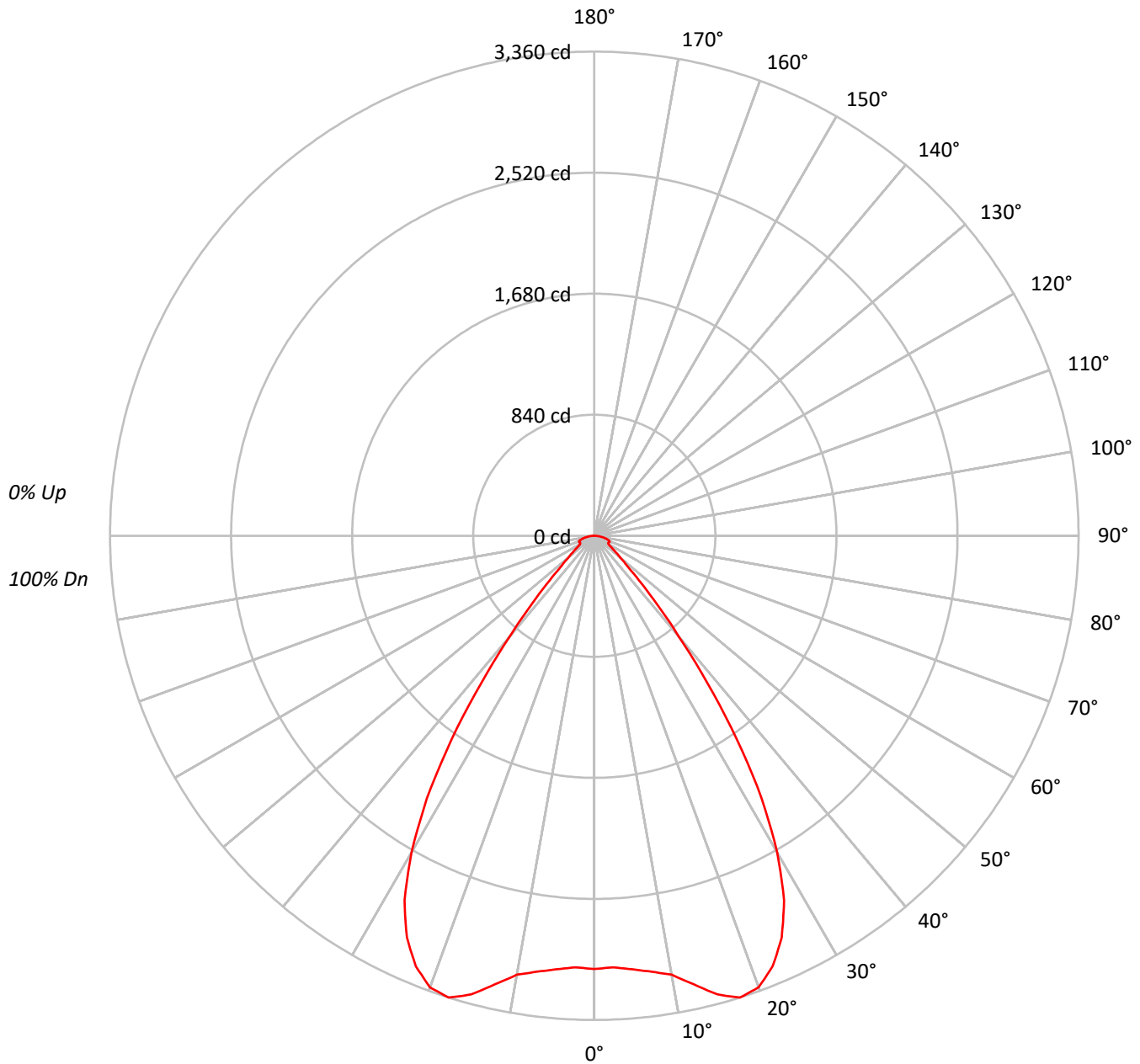
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	85	78	73	91	83	78	73	81	76	72		79	75	71		77
5	88	78	72	67	86	77	71	66	75	70	66		74	69	65		72
6	83	73	66	61	81	72	66	61	70	65	60		69	64	60		67
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	57	52	73	63	56	52	61	56	52		60	55	51		59
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56
10	66	56	49	45	65	55	49	45	54	48	45		53	48	44		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164784
5°	166184
10°	172169
15°	187022
20°	194535
25°	186059
30°	160575
35°	115616
40°	65136
45°	33755
50°	20127
55°	14499
60°	12324
65°	14217
70°	18016
75°	19063
80°	18626
85°	17675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	6.6
10°-20°	929.4	21.0
20°-30°	1389.1	31.4
30°-40°	1061.9	24.0
40°-50°	370.9	8.4
50°-60°	141.4	3.2
60°-70°	110.9	2.5
70°-80°	93.8	2.1
80°-90°	30.2	0.7
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°	2609.1	59.1
0°-40°	3671.0	83.1
0°-60°	4183.3	94.7
0°-90°	4418.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3006	
5°	3020	291
15°	3295	929
25°	3076	1389
35°	1728	1062
45°	435	371
55°	152	141
65°	110	111
75°	90	94
85°	28	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3005.9
2.5°	2997.4
5°	3019.9
7.5°	3050.8
10°	3092.9
12.5°	3188.4
15°	3295.3
17.5°	3359.9
20°	3334.6
22.5°	3233.4
25°	3076.0
27.5°	2851.4
30°	2536.7
32.5°	2160.3
35°	1727.6
37.5°	1281.0
40°	910.2
42.5°	637.7
45°	435.4
47.5°	306.1
50°	236.0
52.5°	185.5
55°	151.7
57.5°	123.6
60°	112.4
62.5°	109.6
65°	109.6
67.5°	115.1
70°	112.4
72.5°	103.9
75°	90.0
77.5°	75.8
80°	59.0
82.5°	42.1
85°	28.1
87.5°	11.2
90°	0.0



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— 0°-180°







(END OF REPORT)