

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: P593272

Luminaire Tested: **HC640D010-HM63040850-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040850-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4886.5 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

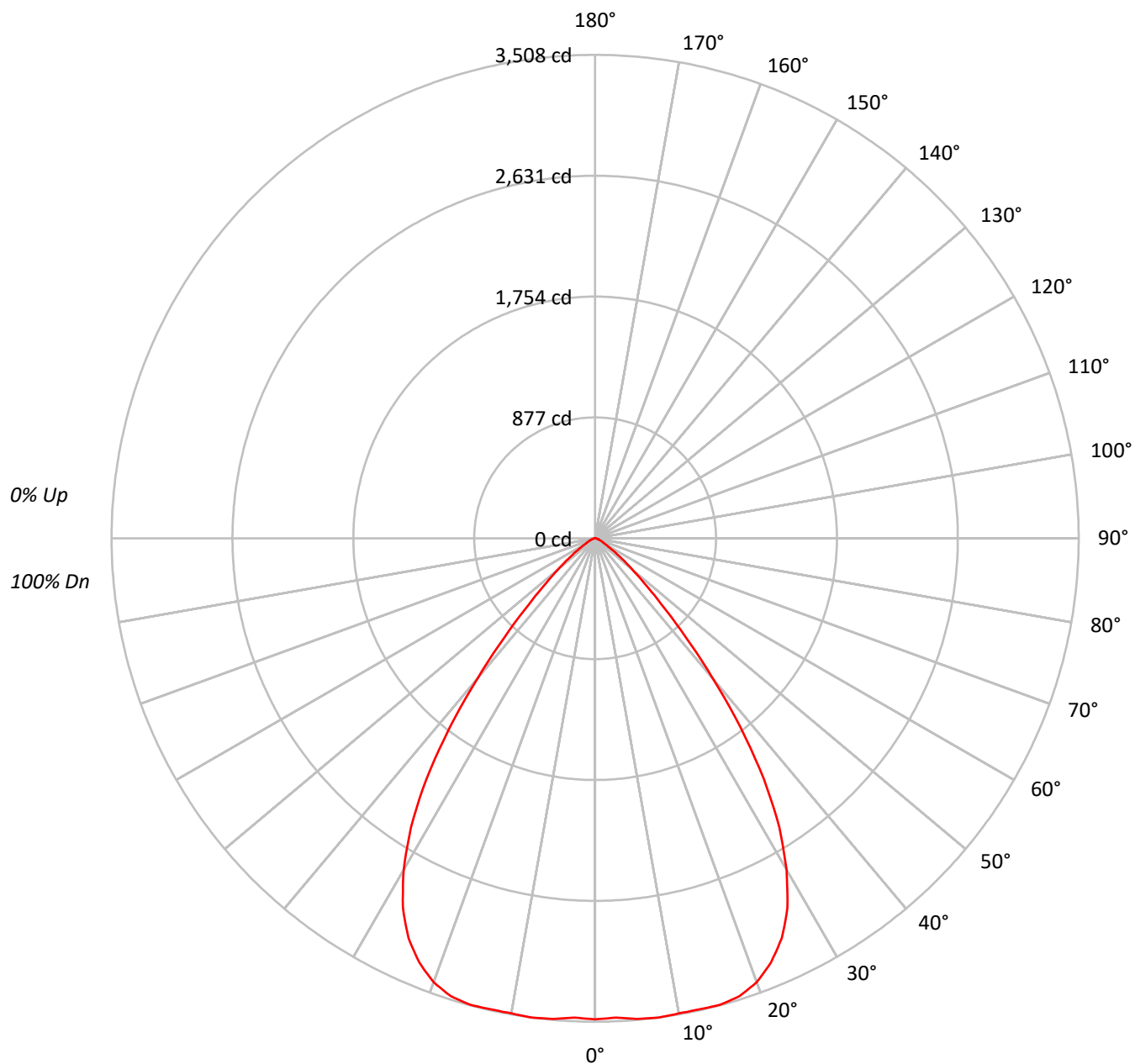
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	103	101	100		100	98	97		96
2	106	101	96	93	104	99	95	92	96	92	90		93	90	88		90
3	100	93	87	83	98	91	86	82	89	84	81		86	83	80		84
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73
6	83	73	67	62	82	73	66	62	71	65	61		70	65	61		68
7	79	68	62	57	77	68	61	57	66	60	56		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	49	45		53	48	45		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191377
5°	192653
10°	194881
15°	198877
20°	199990
25°	193759
30°	175780
35°	142921
40°	94863
45°	52796
50°	29611
55°	16430
60°	9067
65°	6862
70°	4776
75°	3495
80°	2084
85°	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	6.8
10°-20°	988.1	20.2
20°-30°	1456.3	29.8
30°-40°	1302.5	26.7
40°-50°	565.1	11.6
50°-60°	166.1	3.4
60°-70°	53.0	1.1
70°-80°	18.7	0.4
80°-90°	2.7	0.1
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°	2778.5	56.9
0°-40°	4081.0	83.5
0°-60°	4812.1	98.5
0°-90°	4886.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4886.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3491	
5°	3501	334
15°	3504	988
25°	3203	1456
35°	2136	1303
45°	681	565
55°	172	166
65°	53	53
75°	16	19
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3491.0
2.5°	3481.0
5°	3500.9
7.5°	3507.5
10°	3500.9
12.5°	3500.9
15°	3504.2
17.5°	3484.4
20°	3428.1
22.5°	3332.3
25°	3203.3
27.5°	3021.6
30°	2776.9
32.5°	2485.9
35°	2135.6
37.5°	1735.5
40°	1325.6
42.5°	968.5
45°	681.0
47.5°	485.9
50°	347.2
52.5°	248.0
55°	171.9
57.5°	115.7
60°	82.7
62.5°	66.1
65°	52.9
67.5°	39.7
70°	29.8
72.5°	23.1
75°	16.5
77.5°	13.2
80°	6.6
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)