

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: P582533

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.5 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

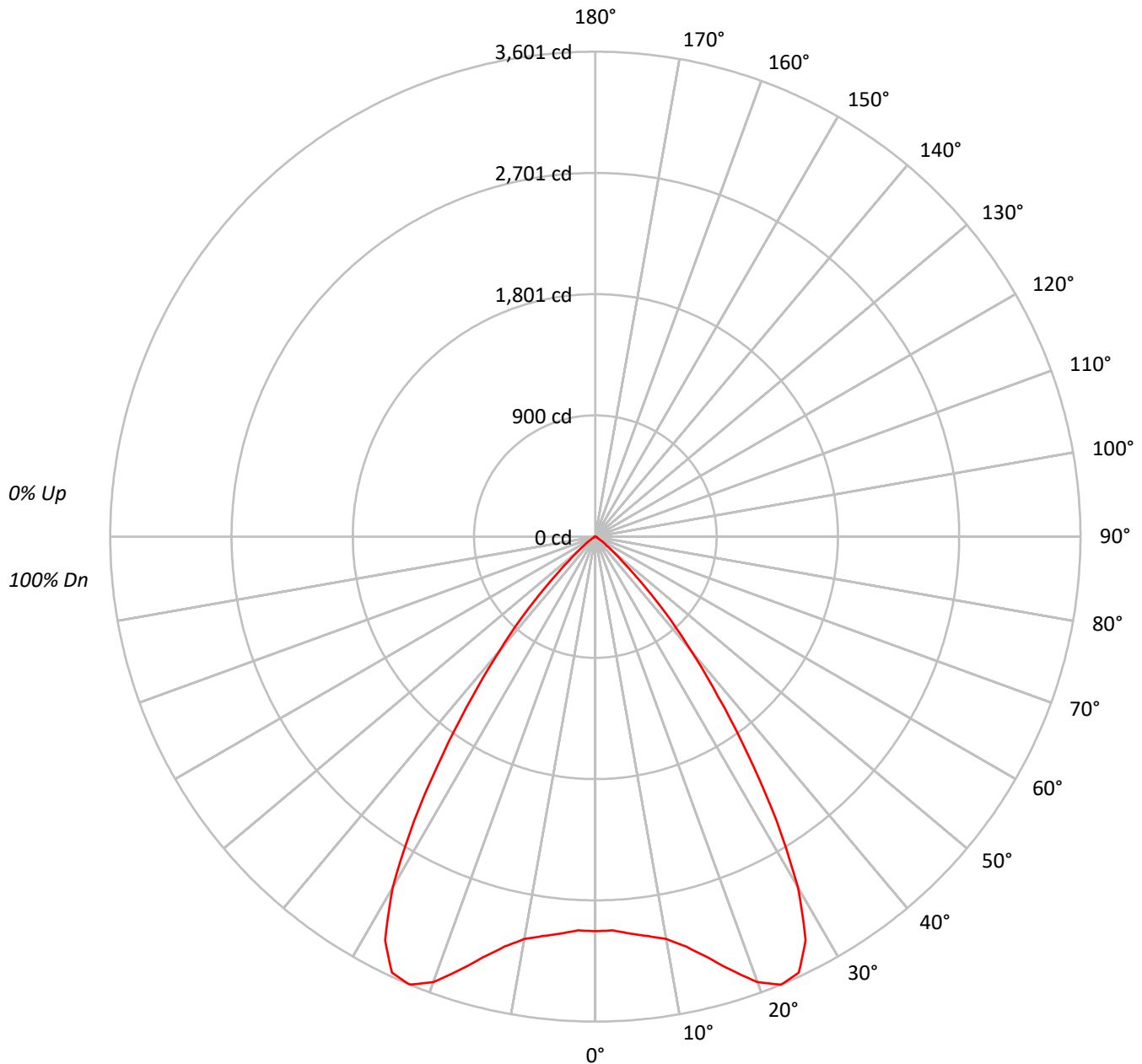
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61
9	71	61	55	50	70	60	54	50	60	54	50		59	53	50		58
10	68	57	51	47	67	57	51	47	56	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160618
5°	162777
10°	168879
15°	183656
20°	205340
25°	216133
30°	190263
35°	131966
40°	78798
45°	37453
50°	14140
55°	5916
60°	1853
65°	1453
70°	914
75°	593
80°	884
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	6.3
10°-20°	929.2	20.5
20°-30°	1592.3	35.1
30°-40°	1236.5	27.3
40°-50°	408.8	9.0
50°-60°	62.7	1.4
60°-70°	11.1	0.2
70°-80°	4.1	0.1
80°-90°	1.1	0.0
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°	2806.1	61.9
0°-40°	4042.7	89.2
0°-60°	4514.2	99.6
0°-90°	4530.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2930	
5°	2958	285
15°	3236	929
25°	3573	1592
35°	1972	1237
45°	483	409
55°	62	63
65°	11	11
75°	3	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2929.9
2.5°	2927.0
5°	2958.0
7.5°	2991.6
10°	3033.8
12.5°	3118.1
15°	3236.0
17.5°	3379.3
20°	3519.8
22.5°	3601.3
25°	3573.2
27.5°	3379.3
30°	3005.7
32.5°	2502.9
35°	1971.9
37.5°	1497.2
40°	1101.1
42.5°	778.1
45°	483.1
47.5°	269.7
50°	165.8
52.5°	101.2
55°	61.9
57.5°	30.9
60°	16.9
62.5°	14.0
65°	11.2
67.5°	8.4
70°	5.7
72.5°	5.7
75°	2.8
77.5°	2.8
80°	2.8
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)