

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: P582532

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

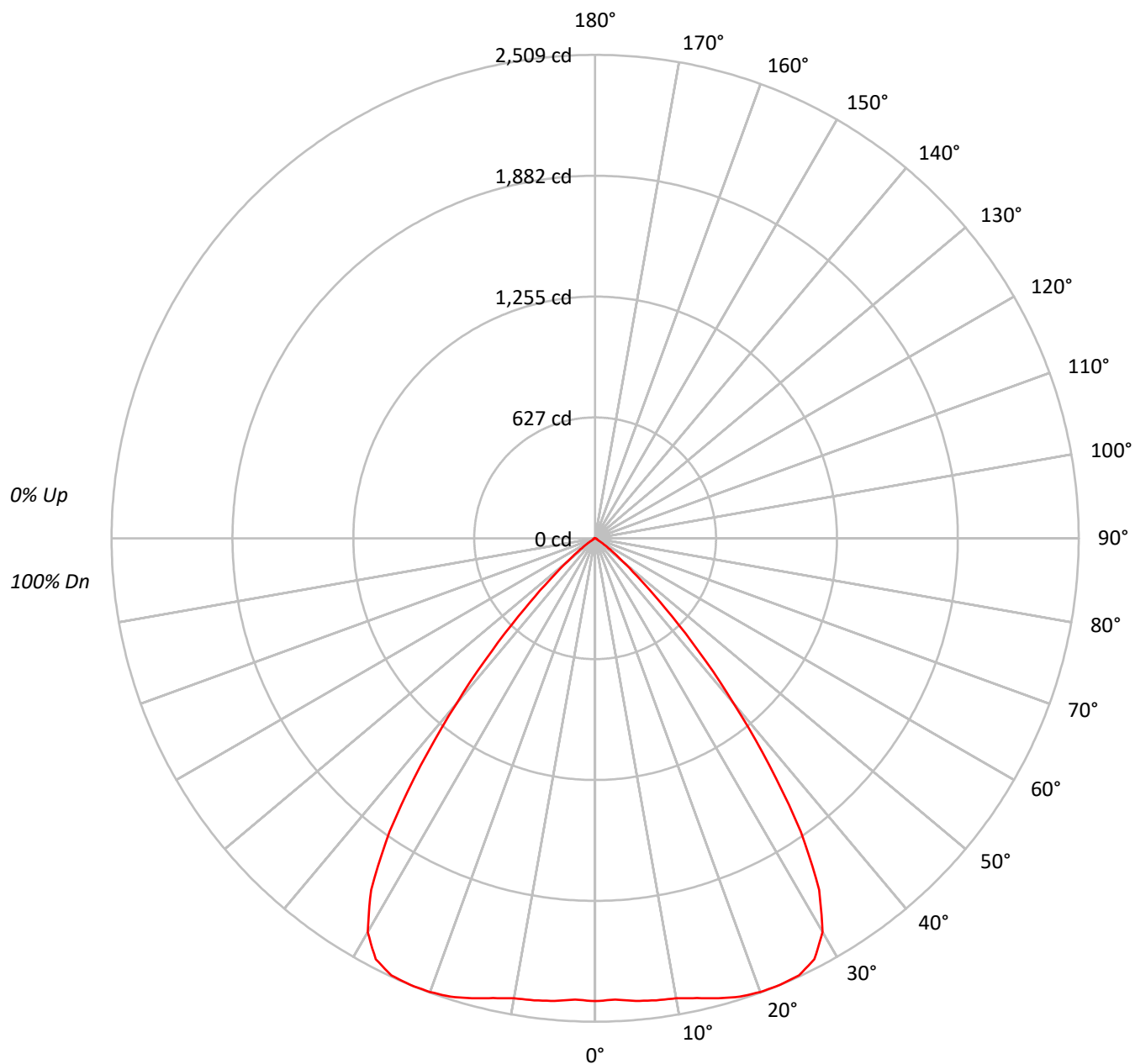
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	102	100		100	98	97		97
2	107	101	97	93	104	100	95	92	96	93	90		93	91	88		90
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84
4	95	86	80	75	93	85	79	75	83	78	74		81	77	73		79
5	89	80	73	68	87	79	73	68	77	72	67		75	70	67		73
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69
7	79	68	62	57	77	68	61	57	66	61	57		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	48	45		53	48	44		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131673
5°	132638
10°	134951
15°	140302
20°	146184
25°	151394
30°	149371
35°	124457
40°	79807
45°	39857
50°	15820
55°	5371
60°	1535
65°	1090
70°	914
75°	1207
80°	884
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	6.2
10°-20°	701.2	18.9
20°-30°	1144.8	30.9
30°-40°	1122.3	30.3
40°-50°	430.3	11.6
50°-60°	63.1	1.7
60°-70°	9.3	0.3
70°-80°	4.9	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°	2076.5	56.0
0°-40°	3198.7	86.3
0°-60°	3692.2	99.6
0°-90°	3707.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2402	
5°	2410	230
15°	2472	701
25°	2503	1145
35°	1860	1122
45°	514	430
55°	56	63
65°	8	9
75°	6	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2401.9
2.5°	2396.2
5°	2410.3
7.5°	2418.7
10°	2424.3
12.5°	2444.0
15°	2472.1
17.5°	2494.6
20°	2505.8
22.5°	2508.6
25°	2502.9
27.5°	2463.6
30°	2359.7
32.5°	2163.0
35°	1859.7
37.5°	1486.1
40°	1115.2
42.5°	795.0
45°	514.1
47.5°	314.6
50°	185.5
52.5°	106.7
55°	56.2
57.5°	25.3
60°	14.0
62.5°	11.2
65°	8.4
67.5°	8.4
70°	5.7
72.5°	5.7
75°	5.7
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)