

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: P582524

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3980.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

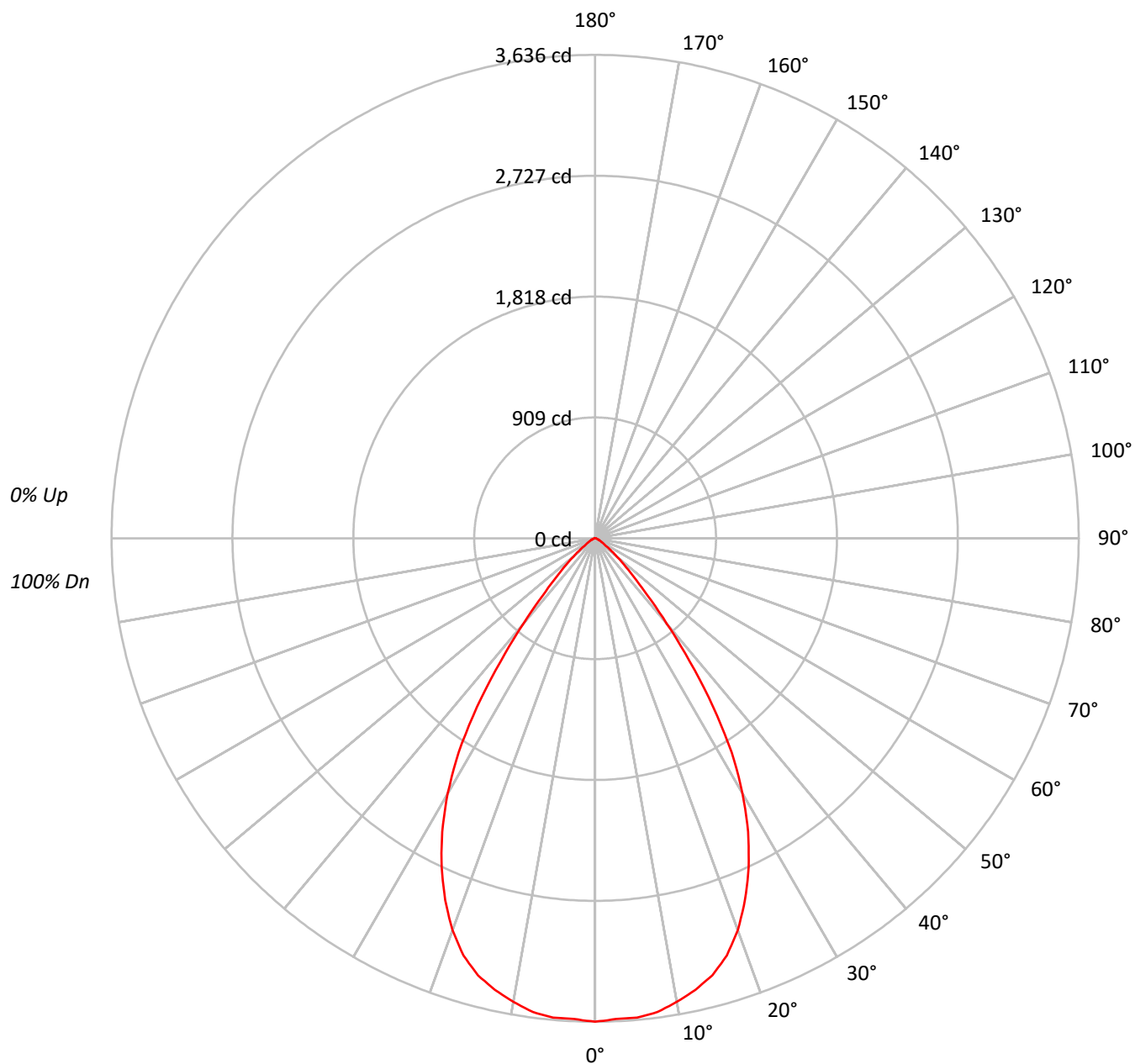
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582524

CATALOG NUMBER: HC640D010-HM63040935-61MDH

Luminous Intensity Polar Plot





TEST NUMBER: P582524

CATALOG NUMBER: HC640D010-HM63040935-61MDH

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	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	79	76		82	78	75		80
5	90	81	75	71	89	80	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	67	64		71
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	62	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	199332
5°	199163
10°	197091
15°	193128
20°	182943
25°	165209
30°	140344
35°	103610
40°	59927
45°	31802
50°	17978
55°	9405
60°	6162
65°	4384
70°	3158
75°	2372
80°	1799
85°	1761



TEST NUMBER: P582524

CATALOG NUMBER: HC640D010-HM63040935-61MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	8.6
10°-20°	951.8	23.9
20°-30°	1242.2	31.2
30°-40°	949.3	23.9
40°-50°	343.7	8.6
50°-60°	99.8	2.5
60°-70°	35.7	0.9
70°-80°	12.2	0.3
80°-90°	2.3	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°	2537.0	63.7
0°-40°	3486.2	87.6
0°-60°	3929.8	98.7
0°-90°	3980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3636	
5°	3619	343
15°	3403	952
25°	2731	1242
35°	1548	949
45°	410	344
55°	98	100
65°	34	36
75°	11	12
85°	3	2
90°	0	



TEST NUMBER: P582524

CATALOG NUMBER: HC640D010-HM63040935-61MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3636.1
2.5°	3619.2
5°	3619.2
7.5°	3593.9
10°	3540.6
12.5°	3478.7
15°	3402.9
17.5°	3290.5
20°	3135.9
22.5°	2944.8
25°	2731.3
27.5°	2489.6
30°	2217.1
32.5°	1910.8
35°	1548.2
37.5°	1168.9
40°	837.4
42.5°	578.9
45°	410.2
47.5°	295.1
50°	210.8
52.5°	148.9
55°	98.4
57.5°	70.3
60°	56.2
62.5°	45.0
65°	33.8
67.5°	28.1
70°	19.7
72.5°	14.1
75°	11.2
77.5°	8.4
80°	5.7
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)