

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: P582399

Luminaire Tested: **HC635D010-HM63040940-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040940-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3426.3 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

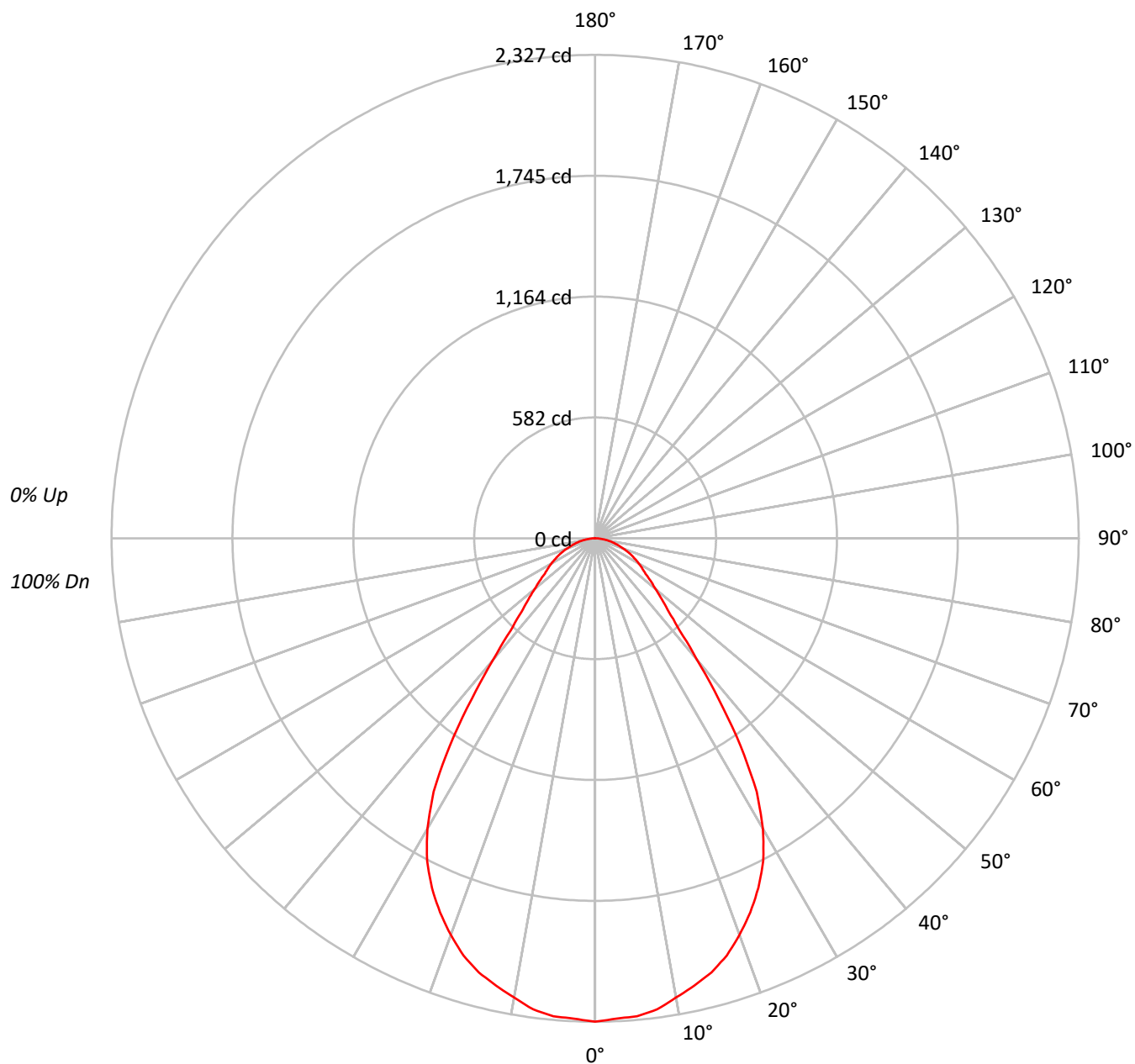
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127556
5°	127085
10°	124959
15°	122759
20°	118514
25°	112379
30°	102218
35°	81673
40°	54495
45°	38849
50°	32366
55°	28204
60°	26654
65°	25100
70°	23065
75°	21520
80°	19573
85°	17171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	6.4
10°-20°	607.3	17.7
20°-30°	848.7	24.8
30°-40°	747.6	21.8
40°-50°	403.9	11.8
50°-60°	270.0	7.9
60°-70°	191.4	5.6
70°-80°	107.6	3.1
80°-90°	31.4	0.9
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°	1674.4	48.9
0°-40°	2422.0	70.7
0°-60°	3096.0	90.4
0°-90°	3426.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3426.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2327	
5°	2309	218
15°	2163	607
25°	1858	849
35°	1220	748
45°	501	404
55°	295	270
65°	194	191
75°	102	108
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2326.8
2.5°	2314.3
5°	2309.4
7.5°	2287.1
10°	2244.8
12.5°	2205.2
15°	2163.0
17.5°	2106.0
20°	2031.5
22.5°	1949.7
25°	1857.9
27.5°	1751.2
30°	1614.8
32.5°	1446.1
35°	1220.4
37.5°	974.8
40°	761.5
42.5°	600.3
45°	501.1
47.5°	434.1
50°	379.5
52.5°	334.9
55°	295.1
57.5°	267.9
60°	243.1
62.5°	218.2
65°	193.5
67.5°	168.6
70°	143.9
72.5°	121.6
75°	101.6
77.5°	81.8
80°	62.0
82.5°	44.7
85°	27.3
87.5°	12.4
90°	0.0



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— 0°-180°







(END OF REPORT)