

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: P582874

Luminaire Tested: **HC605D010-HM60525830-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582874
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: HC605D010-HM60525830-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.1 lumens
Efficiency: N/A
Efficacy: 105.0 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

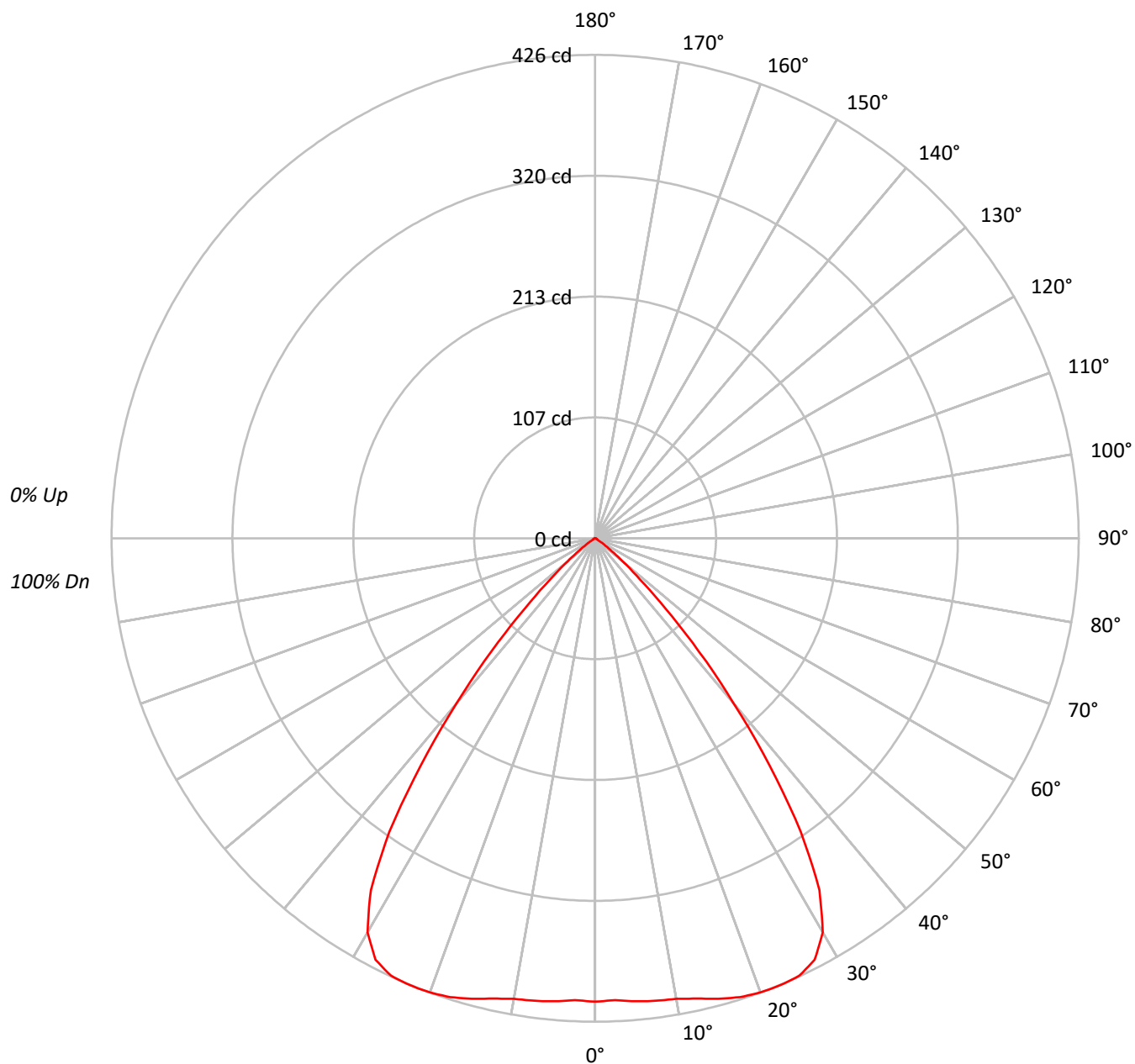
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105		110	108	105	103		104	102	100		100	98	97		97	95	94
2	107	101	97	93		104	100	95	92		96	93	90		93	91	88		90	88	86
3	100	93	88	83		98	92	87	83		89	85	81		87	83	80		84	81	79
4	95	86	80	75		93	85	79	75		83	78	74		81	77	73		79	75	72
5	89	80	73	68		87	79	73	68		77	72	67		75	70	67		73	69	66
6	84	74	67	62		82	73	67	62		71	66	62		70	65	61		69	64	61
7	79	68	62	57		77	68	61	57		66	61	57		65	60	56		64	59	56
8	74	64	57	52		73	63	57	52		62	56	52		61	56	52		60	55	52
9	70	59	53	48		69	59	53	48		58	52	48		57	52	48		56	51	48
10	66	56	49	45		65	55	49	45		54	48	45		53	48	44		53	48	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22383
5°	22540
10°	22940
15°	23842
20°	24846
25°	25731
30°	25384
35°	21154
40°	13561
45°	6768
50°	2686
55°	918
60°	263
65°	195
70°	144
75°	191
80°	158
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	6.2
10°-20°	119.2	18.9
20°-30°	194.6	30.9
30°-40°	190.8	30.3
40°-50°	73.1	11.6
50°-60°	10.8	1.7
60°-70°	1.6	0.3
70°-80°	0.8	0.1
80°-90°	0.2	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°	352.9	56.0
0°-40°	543.7	86.3
0°-60°	627.5	99.6
0°-90°	630.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	408	
5°	410	39
15°	420	119
25°	425	195
35°	316	191
45°	87	73
55°	10	11
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	408.3
2.5°	407.3
5°	409.6
7.5°	411.1
10°	412.1
12.5°	415.4
15°	420.1
17.5°	424.0
20°	425.9
22.5°	426.3
25°	425.4
27.5°	418.8
30°	401.0
32.5°	367.7
35°	316.1
37.5°	252.6
40°	189.5
42.5°	135.1
45°	87.3
47.5°	53.4
50°	31.5
52.5°	18.2
55°	9.6
57.5°	4.3
60°	2.4
62.5°	1.9
65°	1.5
67.5°	1.5
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)