

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: P582928

Luminaire Tested: **HC605D010-HM60525927-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582928
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-HM60525927-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 494.8 lumens
Efficiency: N/A
Efficacy: 82.5 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

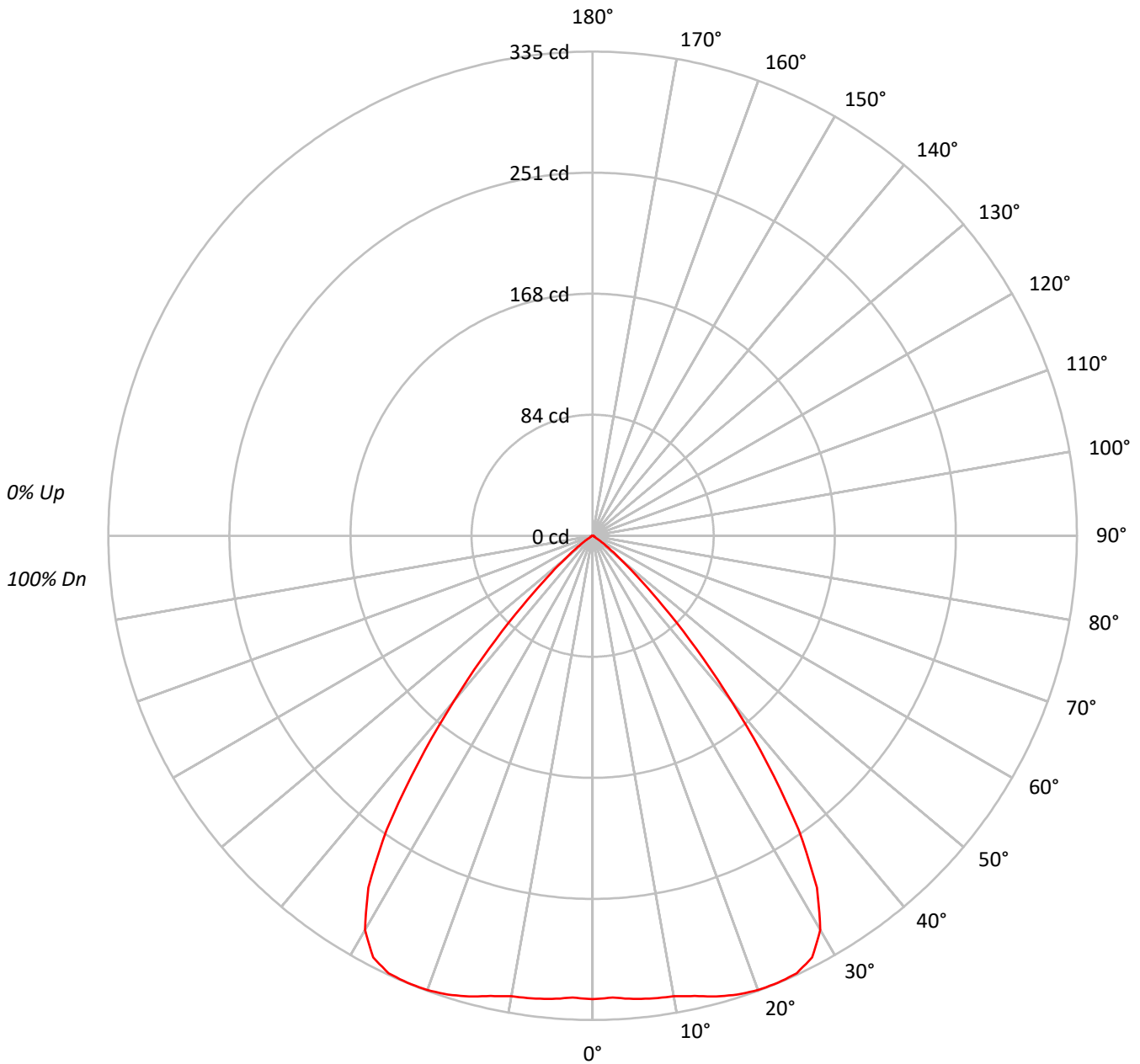
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85				85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71				71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65				65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59
7	79	69	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54				54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50				50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46				46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17575
5°	17703
10°	18008
15°	18729
20°	19514
25°	20203
30°	19933
35°	16617
40°	10649
45°	5318
50°	2107
55°	717
60°	208
65°	143
70°	128
75°	169
80°	95
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	6.2
10°-20°	93.6	18.9
20°-30°	152.8	30.9
30°-40°	149.8	30.3
40°-50°	57.4	11.6
50°-60°	8.4	1.7
60°-70°	1.2	0.3
70°-80°	0.6	0.1
80°-90°	0.1	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°	277.1	56.0
0°-40°	426.9	86.3
0°-60°	492.8	99.6
0°-90°	494.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	321	
5°	322	31
15°	330	94
25°	334	153
35°	248	150
45°	69	57
55°	8	8
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	320.6
2.5°	319.8
5°	321.7
7.5°	322.8
10°	323.5
12.5°	326.2
15°	330.0
17.5°	332.9
20°	334.5
22.5°	334.8
25°	334.0
27.5°	328.8
30°	314.9
32.5°	288.7
35°	248.3
37.5°	198.3
40°	148.8
42.5°	106.1
45°	68.6
47.5°	42.0
50°	24.7
52.5°	14.2
55°	7.5
57.5°	3.4
60°	1.9
62.5°	1.5
65°	1.1
67.5°	1.1
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)