

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: P582921

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582921
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: HC605D010-HM60525927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 517.7 lumens
Efficiency: N/A
Efficacy: 86.3 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

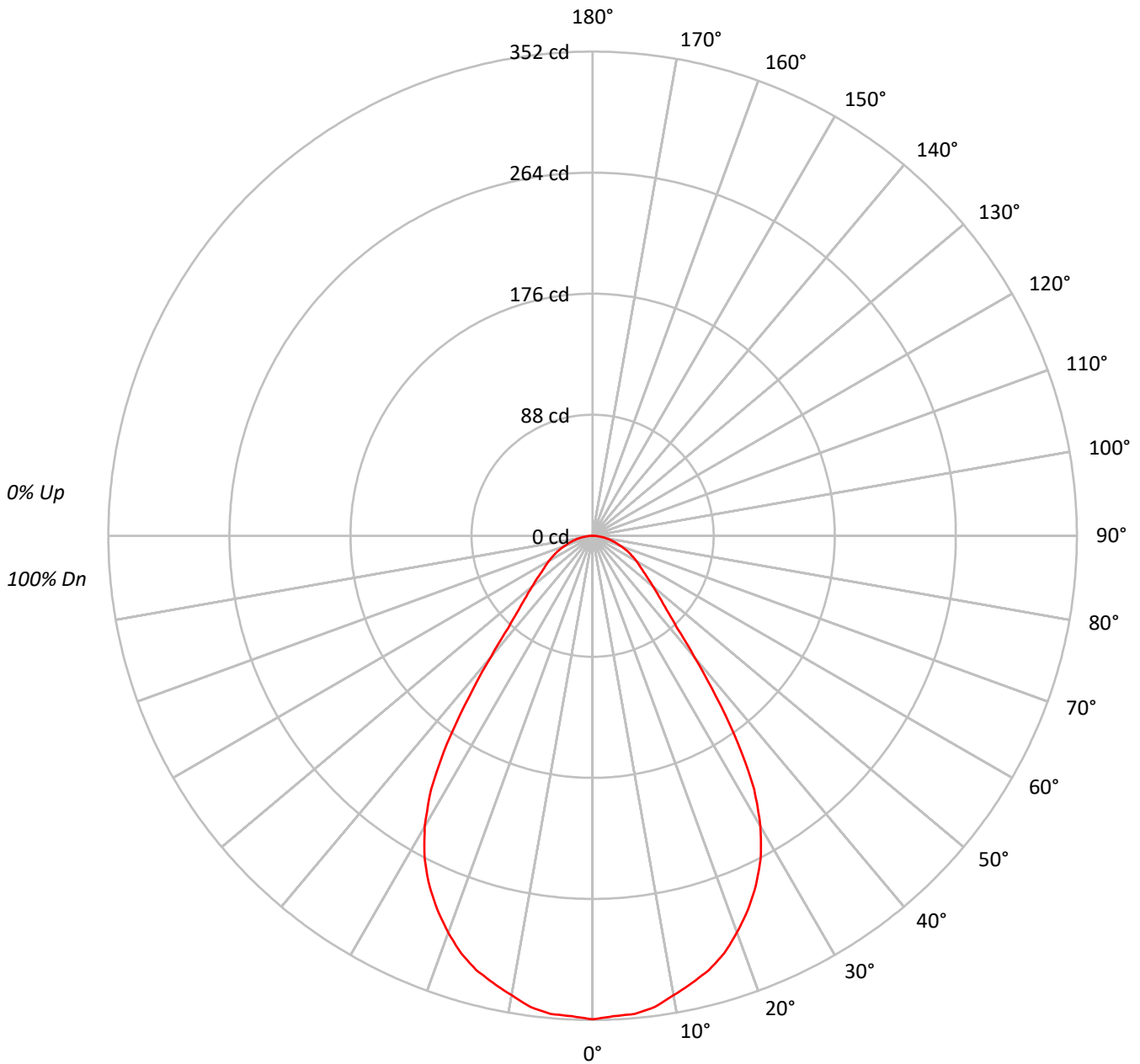
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19269
5°	19200
10°	18882
15°	18547
20°	17904
25°	16979
30°	15445
35°	12341
40°	8230
45°	5869
50°	4887
55°	4263
60°	4024
65°	3801
70°	3478
75°	3262
80°	2968
85°	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	6.4
10°-20°	91.8	17.7
20°-30°	128.2	24.8
30°-40°	112.9	21.8
40°-50°	61.0	11.8
50°-60°	40.8	7.9
60°-70°	28.9	5.6
70°-80°	16.3	3.1
80°-90°	4.8	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°	253.0	48.9
0°-40°	365.9	70.7
0°-60°	467.7	90.3
0°-90°	517.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	352	
5°	349	33
15°	327	92
25°	281	128
35°	184	113
45°	76	61
55°	45	41
65°	29	29
75°	15	16
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	351.5
2.5°	349.6
5°	348.9
7.5°	345.6
10°	339.2
12.5°	333.1
15°	326.8
17.5°	318.2
20°	306.9
22.5°	294.6
25°	280.7
27.5°	264.6
30°	244.0
32.5°	218.5
35°	184.4
37.5°	147.2
40°	115.0
42.5°	90.7
45°	75.7
47.5°	65.5
50°	57.3
52.5°	50.6
55°	44.6
57.5°	40.5
60°	36.7
62.5°	33.0
65°	29.3
67.5°	25.5
70°	21.7
72.5°	18.4
75°	15.4
77.5°	12.3
80°	9.4
82.5°	6.8
85°	4.1
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)