

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: P592989

Luminaire Tested: **HC605D010-HM60525850-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592989
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-HM60525850-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.4 lumens
Efficiency: N/A
Efficacy: 115.2 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

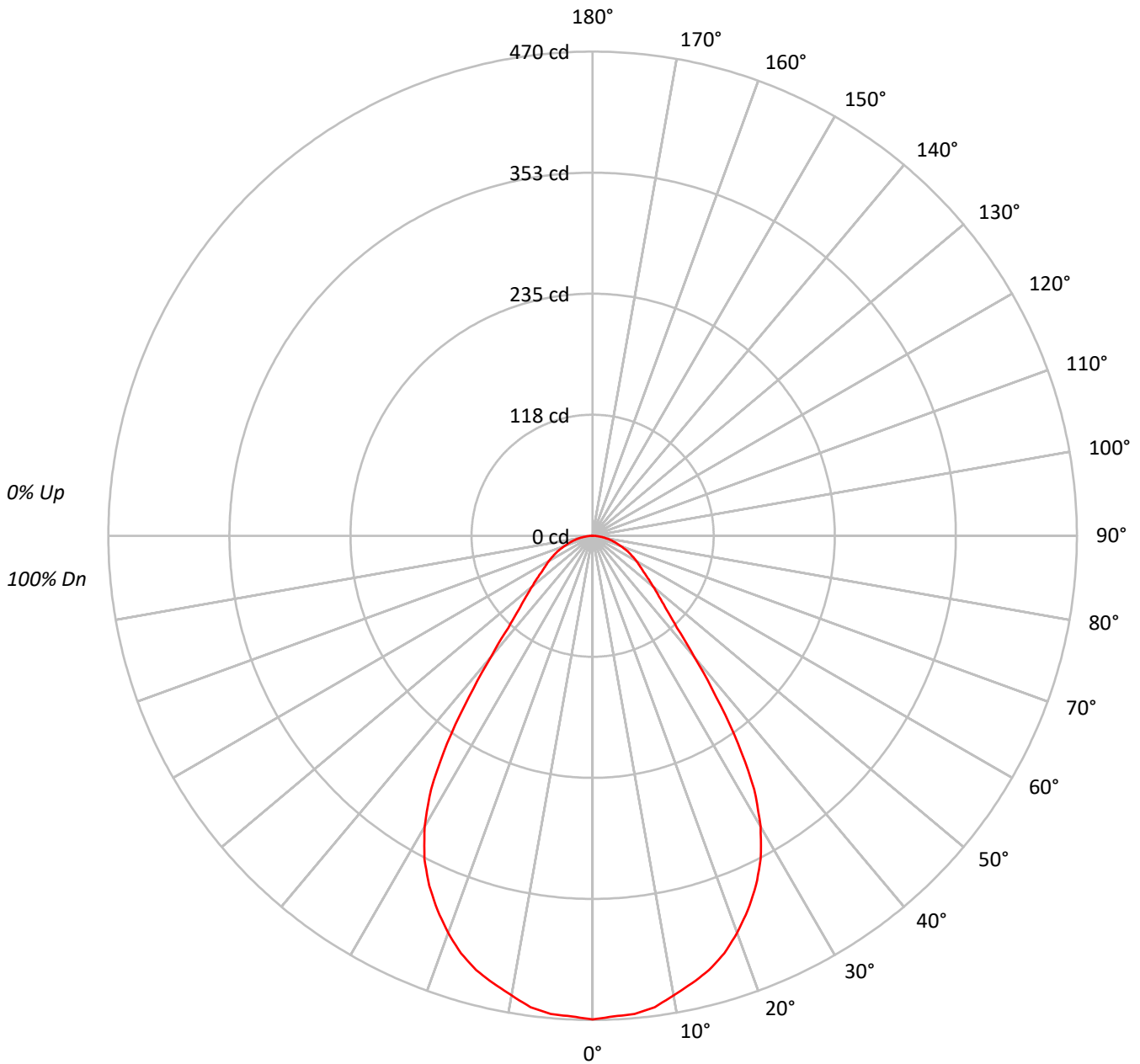
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25738
5°	25644
10°	25217
15°	24773
20°	23919
25°	22677
30°	20630
35°	16476
40°	10999
45°	7838
50°	6533
55°	5696
60°	5372
65°	5072
70°	4648
75°	4363
80°	3946
85°	3459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	6.4
10°-20°	122.6	17.7
20°-30°	171.3	24.8
30°-40°	150.9	21.8
40°-50°	81.5	11.8
50°-60°	54.5	7.9
60°-70°	38.6	5.6
70°-80°	21.7	3.1
80°-90°	6.3	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°	337.9	48.9
0°-40°	488.8	70.7
0°-60°	624.8	90.4
0°-90°	691.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	470	
5°	466	44
15°	436	123
25°	375	171
35°	246	151
45°	101	82
55°	60	54
65°	39	39
75°	21	22
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	469.5
2.5°	467.0
5°	466.0
7.5°	461.5
10°	453.0
12.5°	445.0
15°	436.5
17.5°	425.0
20°	410.0
22.5°	393.5
25°	374.9
27.5°	353.4
30°	325.9
32.5°	291.9
35°	246.2
37.5°	196.7
40°	153.7
42.5°	121.1
45°	101.1
47.5°	87.6
50°	76.6
52.5°	67.6
55°	59.6
57.5°	54.0
60°	49.0
62.5°	44.1
65°	39.1
67.5°	34.0
70°	29.0
72.5°	24.5
75°	20.6
77.5°	16.5
80°	12.5
82.5°	9.0
85°	5.5
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)