

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: P581102

Luminaire Tested: **HC405D010-HM40525940-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525940-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 669.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

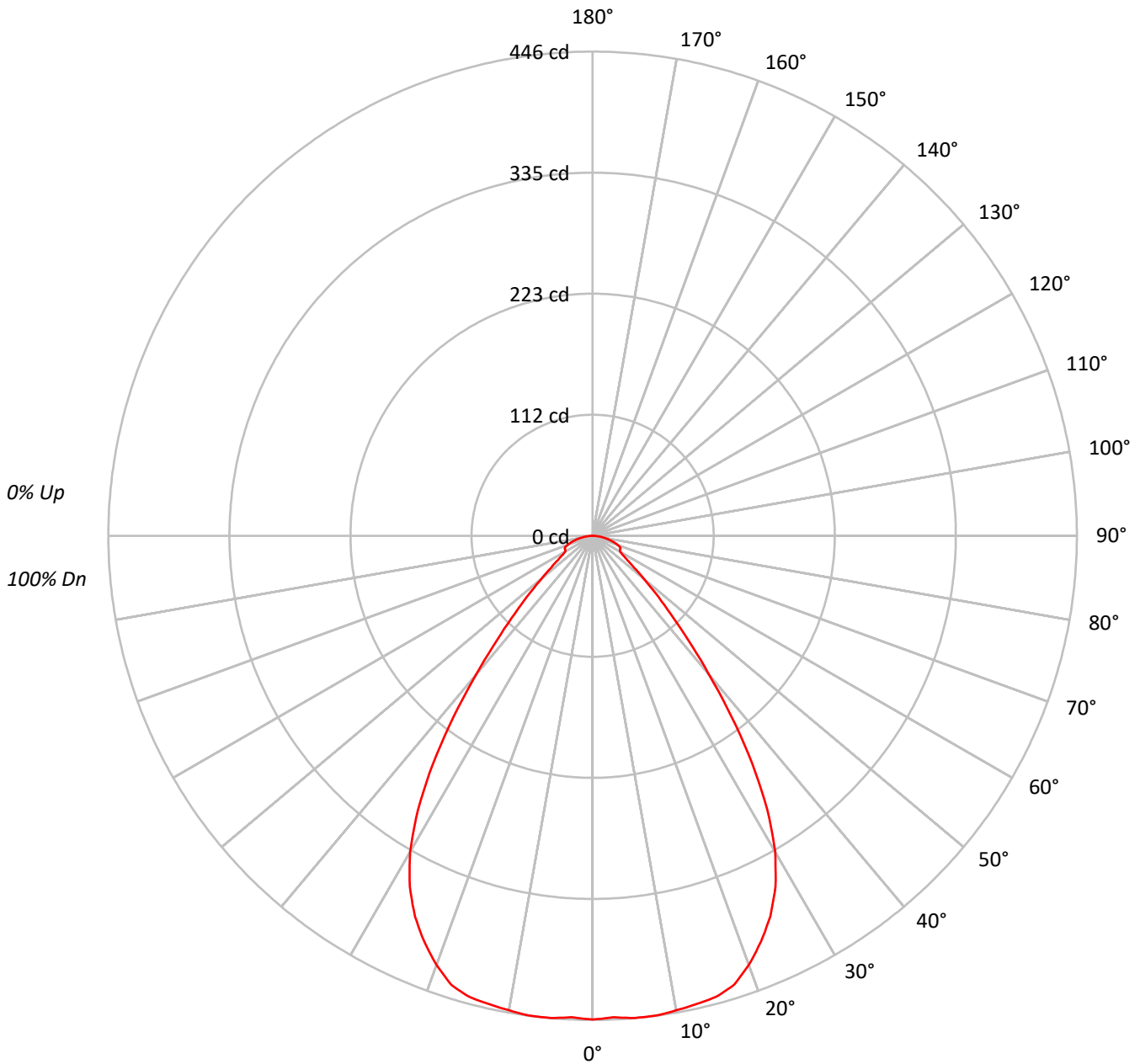
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54963
5°	55210
10°	55598
15°	56148
20°	55209
25°	52669
30°	47870
35°	38608
40°	26793
45°	17583
50°	11782
55°	8387
60°	7179
65°	8260
70°	8836
75°	8483
80°	7671
85°	7076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	6.3
10°-20°	123.5	18.5
20°-30°	176.5	26.4
30°-40°	157.7	23.6
40°-50°	80.9	12.1
50°-60°	36.8	5.5
60°-70°	27.5	4.1
70°-80°	18.6	2.8
80°-90°	5.5	0.8
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°	342.5	51.2
0°-40°	500.2	74.7
0°-60°	617.8	92.3
0°-90°	669.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	446	
5°	446	42
15°	440	124
25°	387	176
35°	256	158
45°	101	81
55°	39	37
65°	28	27
75°	18	19
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	445.6
2.5°	443.9
5°	445.9
7.5°	445.9
10°	443.9
12.5°	441.9
15°	439.7
17.5°	433.6
20°	420.6
22.5°	404.9
25°	387.0
27.5°	364.7
30°	336.1
32.5°	299.5
35°	256.4
37.5°	210.3
40°	166.4
42.5°	129.8
45°	100.8
47.5°	78.8
50°	61.4
52.5°	48.1
55°	39.0
57.5°	32.8
60°	29.1
62.5°	28.3
65°	28.3
67.5°	27.4
70°	24.5
72.5°	21.1
75°	17.8
77.5°	14.1
80°	10.8
82.5°	7.8
85°	5.0
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)