

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: P592648

Luminaire Tested: **HC415D010-HM40525950-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525950-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.2 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

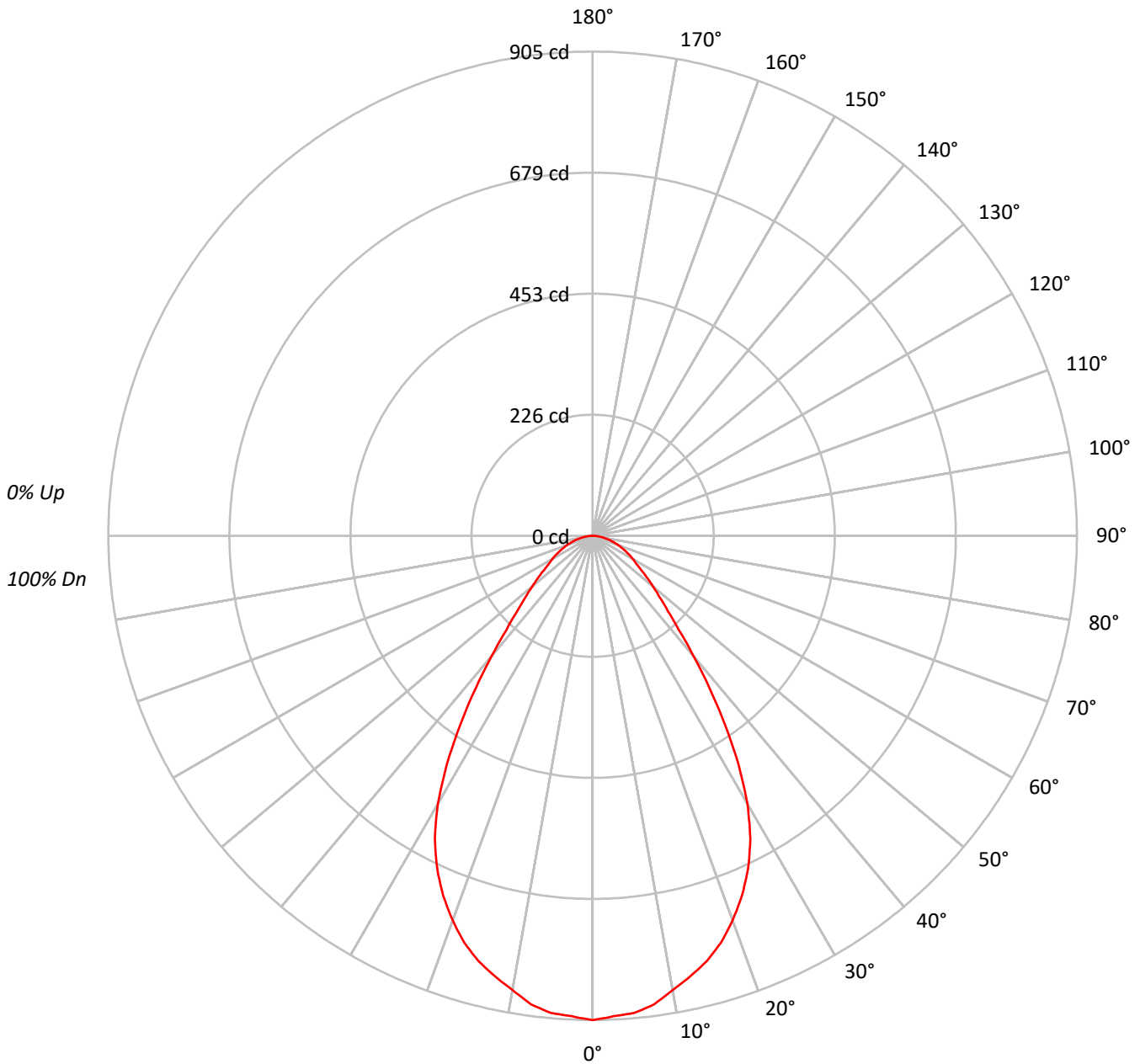
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111677
5°	110853
10°	107964
15°	105120
20°	100415
25°	93539
30°	82380
35°	64974
40°	47162
45°	34643
50°	28189
55°	23634
60°	21437
65°	19671
70°	18320
75°	16728
80°	15130
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	6.6
10°-20°	230.9	18.2
20°-30°	313.0	24.6
30°-40°	268.6	21.1
40°-50°	158.6	12.5
50°-60°	100.5	7.9
60°-70°	67.5	5.3
70°-80°	37.3	2.9
80°-90°	10.5	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°	628.3	49.4
0°-40°	896.9	70.6
0°-60°	1155.9	90.9
0°-90°	1271.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	905	
5°	895	84
15°	823	231
25°	687	313
35°	432	269
45°	199	159
55°	110	100
65°	67	68
75°	35	37
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	905.4
2.5°	898.9
5°	895.3
7.5°	883.2
10°	862.0
12.5°	843.5
15°	823.2
17.5°	797.3
20°	765.0
22.5°	728.9
25°	687.3
27.5°	638.4
30°	578.4
32.5°	507.2
35°	431.5
37.5°	358.5
40°	292.9
42.5°	238.3
45°	198.6
47.5°	170.0
50°	146.9
52.5°	127.5
55°	109.9
57.5°	96.1
60°	86.9
62.5°	77.7
65°	67.4
67.5°	59.1
70°	50.8
72.5°	42.5
75°	35.1
77.5°	27.7
80°	21.3
82.5°	14.8
85°	9.2
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)