

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: P579911

Luminaire Tested: **HC415D010-HM40525927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1075.7 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

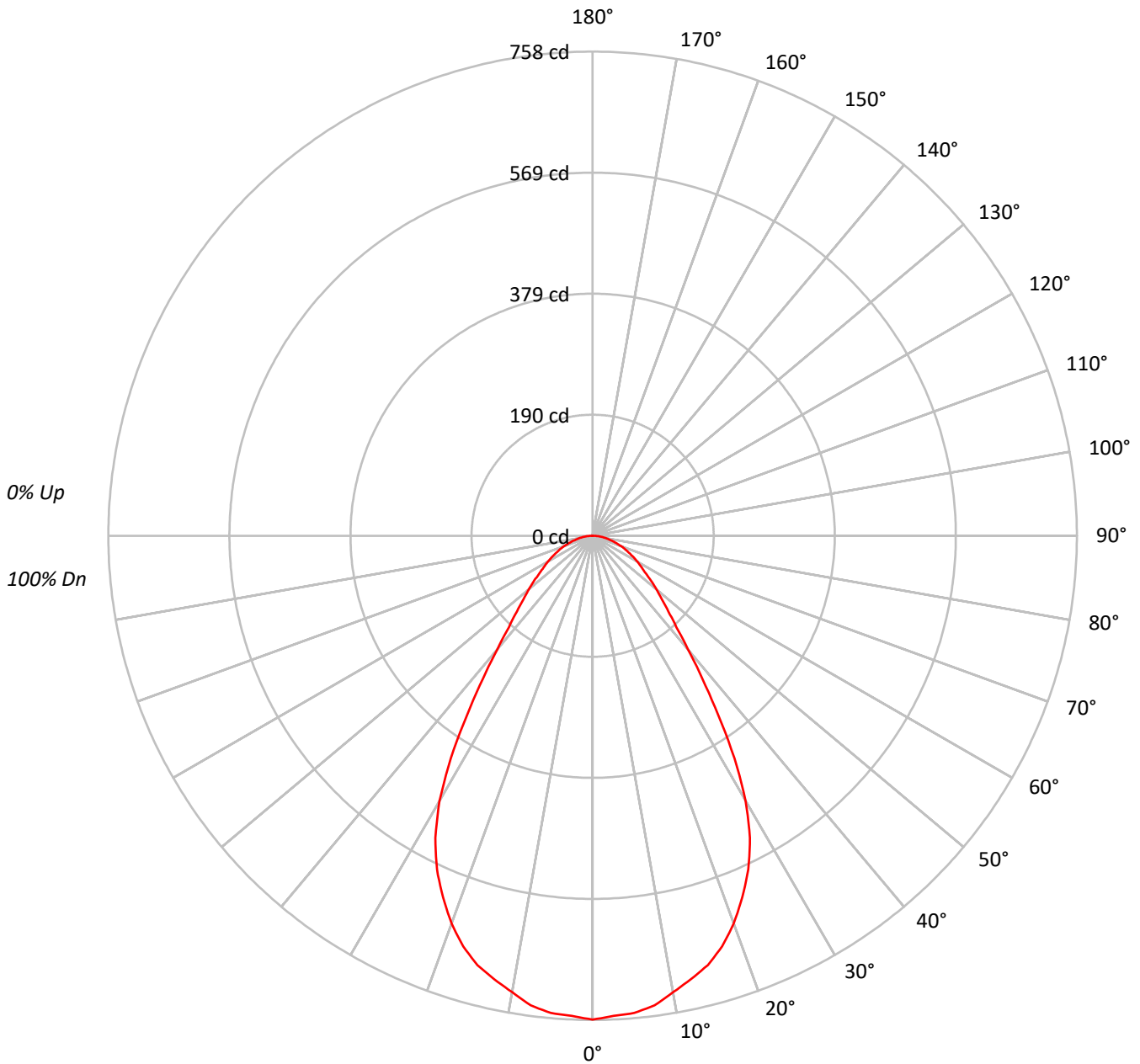
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93434
5°	92850
10°	90868
15°	88877
20°	84756
25°	78460
30°	68237
35°	51528
40°	37340
45°	29201
50°	24965
55°	21591
60°	19883
65°	18212
70°	17022
75°	15584
80°	14633
85°	14011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	6.6
10°-20°	194.9	18.1
20°-30°	262.1	24.4
30°-40°	215.5	20.0
40°-50°	132.4	12.3
50°-60°	91.6	8.5
60°-70°	62.5	5.8
70°-80°	34.8	3.2
80°-90°	11.1	1.0
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°	527.9	49.1
0°-40°	743.4	69.1
0°-60°	967.4	89.9
0°-90°	1075.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	750	71
15°	696	195
25°	576	262
35°	342	216
45°	167	132
55°	100	92
65°	62	62
75°	33	35
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	757.5
2.5°	752.2
5°	749.9
7.5°	741.6
10°	725.5
12.5°	711.1
15°	696.0
17.5°	673.9
20°	645.7
22.5°	612.3
25°	576.5
27.5°	533.1
30°	479.1
32.5°	413.0
35°	342.2
37.5°	281.4
40°	231.9
42.5°	194.0
45°	167.4
47.5°	146.8
50°	130.1
52.5°	114.8
55°	100.4
57.5°	89.7
60°	80.6
62.5°	71.5
65°	62.4
67.5°	54.8
70°	47.2
72.5°	39.6
75°	32.7
77.5°	25.8
80°	20.6
82.5°	15.2
85°	9.9
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)