

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: P580082

Luminaire Tested: **HC420D010-HM40525935-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC420D010-HM40525935-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1794.7 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

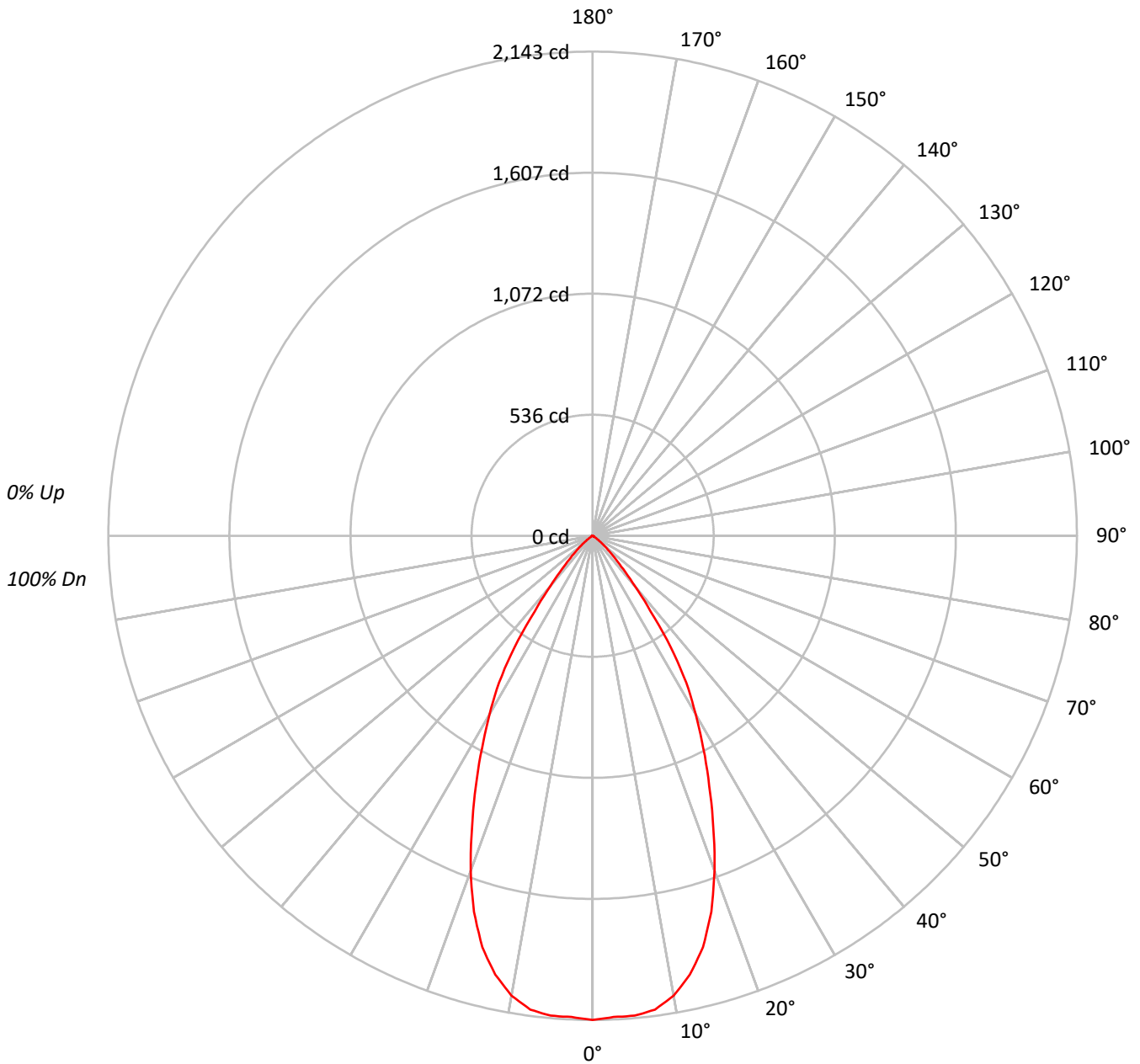
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264342
5°	263977
10°	258851
15°	240696
20°	207000
25°	166283
30°	129822
35°	90903
40°	46646
45°	23689
50°	11859
55°	4430
60°	1776
65°	1401
70°	866
75°	620
80°	923
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	11.2
10°-20°	520.3	29.0
20°-30°	560.5	31.2
30°-40°	368.3	20.5
40°-50°	114.5	6.4
50°-60°	22.5	1.3
60°-70°	4.8	0.3
70°-80°	1.8	0.1
80°-90°	0.5	0.0
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°	1282.4	71.5
0°-40°	1650.6	92.0
0°-60°	1787.6	99.6
0°-90°	1794.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2143	
5°	2132	202
15°	1885	520
25°	1222	560
35°	604	368
45°	136	115
55°	21	22
65°	5	5
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2143.1
2.5°	2132.0
5°	2132.0
7.5°	2115.2
10°	2066.7
12.5°	1989.1
15°	1884.9
17.5°	1745.4
20°	1577.0
22.5°	1395.1
25°	1221.8
27.5°	1060.6
30°	911.5
32.5°	770.9
35°	603.7
37.5°	420.6
40°	289.7
42.5°	200.0
45°	135.8
47.5°	92.1
50°	61.8
52.5°	38.8
55°	20.6
57.5°	8.5
60°	7.2
62.5°	6.1
65°	4.8
67.5°	3.7
70°	2.4
72.5°	2.4
75°	1.3
77.5°	1.3
80°	1.3
82.5°	1.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)