

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: P581527

Luminaire Tested: **HC407D010-HM40525935-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525935-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 788.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

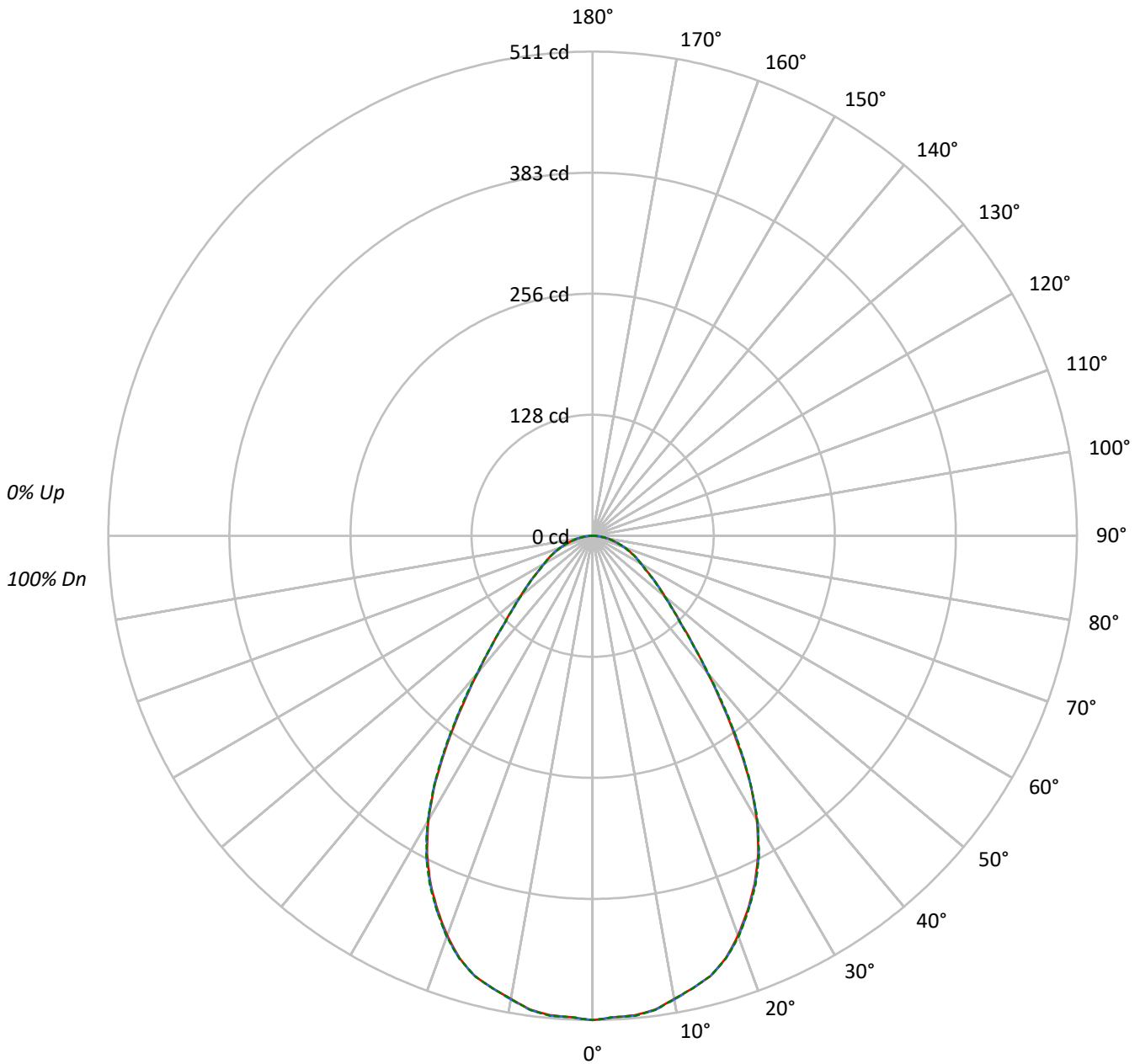
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63054	63054	63054
5°	62899	62973	62973
10°	62173	62248	62173
15°	61422	61422	61422
20°	58897	59055	59107
25°	55092	55174	55310
30°	49365	49522	49522
35°	40084	40400	40475
40°	30255	30416	30513
45°	23165	23078	23078
50°	19093	18997	18997
55°	16387	16279	16279
60°	14629	14481	14481
65°	13747	13747	13747
70°	12803	12803	12803
75°	11628	11867	11628
80°	10939	10513	10939
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	6.1
10°-20°	134.8	17.1
20°-30°	185.2	23.5
30°-40°	166.5	21.1
40°-50°	105.2	13.3
50°-60°	68.7	8.7
60°-70°	46.5	5.9
70°-80°	26.2	3.3
80°-90°	7.4	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°	368.2	46.7
0°-40°	534.7	67.8
0°-60°	708.6	89.8
0°-90°	788.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	508	508	509	509	509	48
15°	481	481	481	481	481	135
25°	405	405	405	406	406	185
35°	266	267	268	269	269	166
45°	133	132	132	132	132	105
55°	76	76	76	76	76	69
65°	47	47	47	47	47	47
75°	24	25	25	25	24	26
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.2	511.2	511.2	511.2	511.2
2.5°	508.6	508.6	508.6	508.6	508.6
5°	508.0	508.0	508.6	508.6	508.6
7.5°	504.4	504.8	504.8	504.8	504.8
10°	496.4	496.4	497.0	497.0	496.4
12.5°	489.0	489.0	489.0	489.5	489.0
15°	481.0	481.0	481.0	481.0	481.0
17.5°	467.3	467.8	467.8	467.8	467.8
20°	448.7	449.9	449.9	450.3	450.3
22.5°	427.5	428.1	428.7	429.1	428.7
25°	404.8	405.4	405.4	406.4	406.4
27.5°	378.4	379.0	380.0	380.0	380.0
30°	346.6	347.2	347.7	347.7	347.7
32.5°	309.1	309.1	310.1	310.7	310.1
35°	266.2	267.2	268.3	269.4	268.8
37.5°	225.4	226.5	227.0	227.0	227.6
40°	187.9	188.9	188.9	189.9	189.5
42.5°	158.2	157.7	157.7	158.8	158.2
45°	132.8	132.3	132.3	132.3	132.3
47.5°	114.3	113.8	113.8	113.8	113.8
50°	99.5	99.0	99.0	99.0	99.0
52.5°	87.3	86.8	86.8	86.8	86.3
55°	76.2	76.2	75.7	76.2	75.7
57.5°	66.1	66.1	66.1	66.1	66.1
60°	59.3	58.7	58.7	58.7	58.7
62.5°	52.9	52.9	52.9	52.9	52.9
65°	47.1	47.1	47.1	47.1	47.1
67.5°	41.3	40.7	41.3	41.3	40.7
70°	35.5	34.9	35.5	35.5	35.5
72.5°	29.6	29.6	29.6	30.2	29.6
75°	24.4	24.9	24.9	24.9	24.4
77.5°	19.6	20.1	19.6	19.6	19.6
80°	15.4	14.8	14.8	14.8	15.4
82.5°	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)