

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: P581543

Luminaire Tested: **HC407D010-HM40525950-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581543
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: HC407D010-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: 754.8 lumens
Efficiency: N/A
Efficacy: 94.3 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

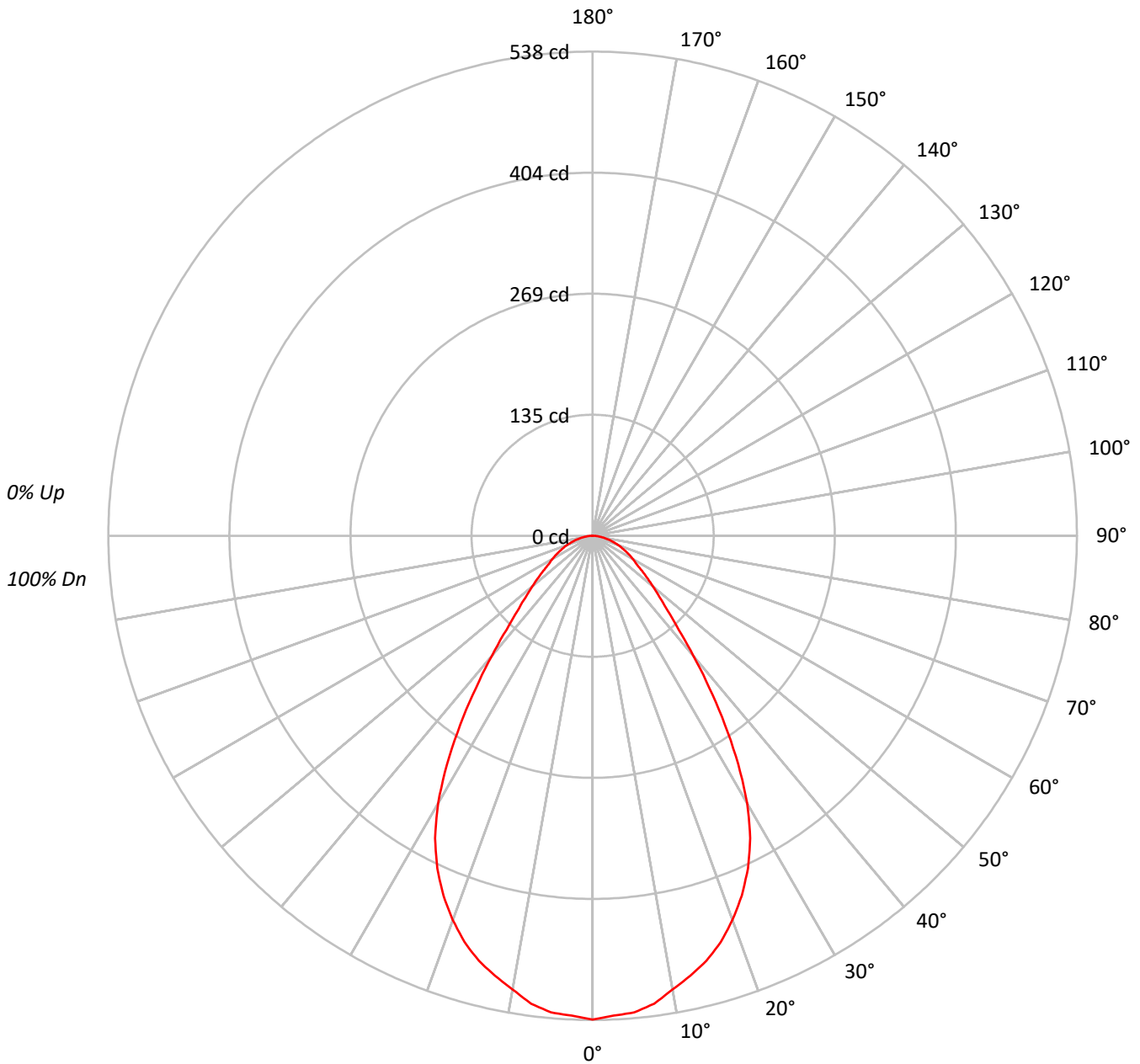
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581543

CATALOG NUMBER: HC407D010-HM40525950-41NDW

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°	66311
5°	65821
10°	64102
15°	62418
20°	59619
25°	55541
30°	48910
35°	38578
40°	28001
45°	20566
50°	16733
55°	14043
60°	12729
65°	11704
70°	10891
75°	9913
80°	8950
85°	7784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	6.6
10°-20°	137.1	18.2
20°-30°	185.8	24.6
30°-40°	159.5	21.1
40°-50°	94.2	12.5
50°-60°	59.7	7.9
60°-70°	40.1	5.3
70°-80°	22.1	2.9
80°-90°	6.2	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°	373.0	49.4
0°-40°	532.5	70.6
0°-60°	686.3	90.9
0°-90°	754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	532	50
15°	489	137
25°	408	186
35°	256	159
45°	118	94
55°	65	60
65°	40	40
75°	21	22
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	537.6
2.5°	533.7
5°	531.6
7.5°	524.4
10°	511.8
12.5°	500.8
15°	488.8
17.5°	473.4
20°	454.2
22.5°	432.8
25°	408.1
27.5°	379.1
30°	343.4
32.5°	301.1
35°	256.2
37.5°	212.8
40°	173.9
42.5°	141.6
45°	117.9
47.5°	100.9
50°	87.2
52.5°	75.7
55°	65.3
57.5°	57.0
60°	51.6
62.5°	46.1
65°	40.1
67.5°	35.1
70°	30.2
72.5°	25.3
75°	20.8
77.5°	16.5
80°	12.6
82.5°	8.8
85°	5.5
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)