

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: P584919

Luminaire Tested: **HC855D010-HM82555827-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555827-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4916.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

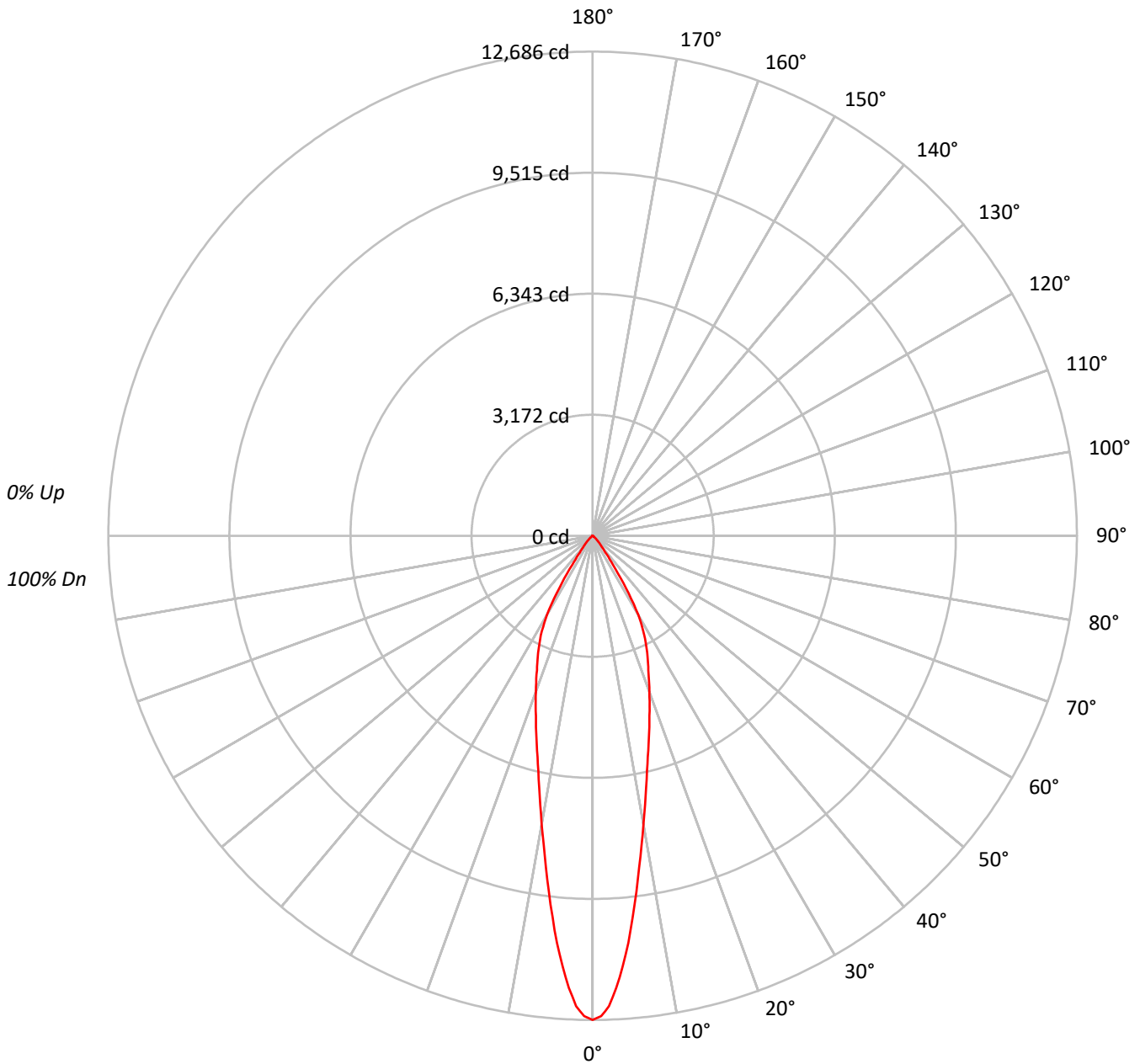
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391196
5°	331422
10°	240464
15°	180579
20°	142481
25°	114930
30°	85168
35°	34505
40°	14556
45°	7806
50°	3502
55°	1763
60°	1129
65°	795
70°	658
75°	429
80°	639
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.3	18.7
10°-20°	1588.7	32.3
20°-30°	1536.0	31.2
30°-40°	674.6	13.7
40°-50°	145.8	3.0
50°-60°	32.7	0.7
60°-70°	11.2	0.2
70°-80°	4.3	0.1
80°-90°	3.4	0.1
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°	4044.1	82.3
0°-40°	4718.7	96.0
0°-60°	4897.3	99.6
0°-90°	4916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4916.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12686	
5°	10707	919
15°	5656	1589
25°	3378	1536
35°	917	675
45°	179	146
55°	33	33
65°	11	11
75°	4	4
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12686.2
1°	12591.3
2°	12332.0
3°	11864.6
4°	11305.8
5°	10706.9
6°	10053.3
7°	9396.0
8°	8778.9
9°	8205.5
10°	7679.6
11°	7183.1
12°	6737.5
13°	6332.2
14°	5974.3
15°	5656.5
17.5°	4944.4
20°	4341.9
22.5°	3812.4
25°	3377.9
27.5°	2936.0
30°	2391.9
32.5°	1625.0
35°	916.6
37.5°	540.4
40°	361.6
42.5°	255.6
45°	179.0
47.5°	116.8
50°	73.0
52.5°	43.8
55°	32.8
57.5°	25.5
60°	18.3
62.5°	14.6
65°	10.9
67.5°	7.3
70°	7.3
72.5°	3.6
75°	3.6
77.5°	3.6
80°	3.6
82.5°	3.6



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		3.6
87.5°		3.6



(END OF REPORT)