

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: P593828

Luminaire Tested: **HC855D010-HM82555850-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555850-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6045.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

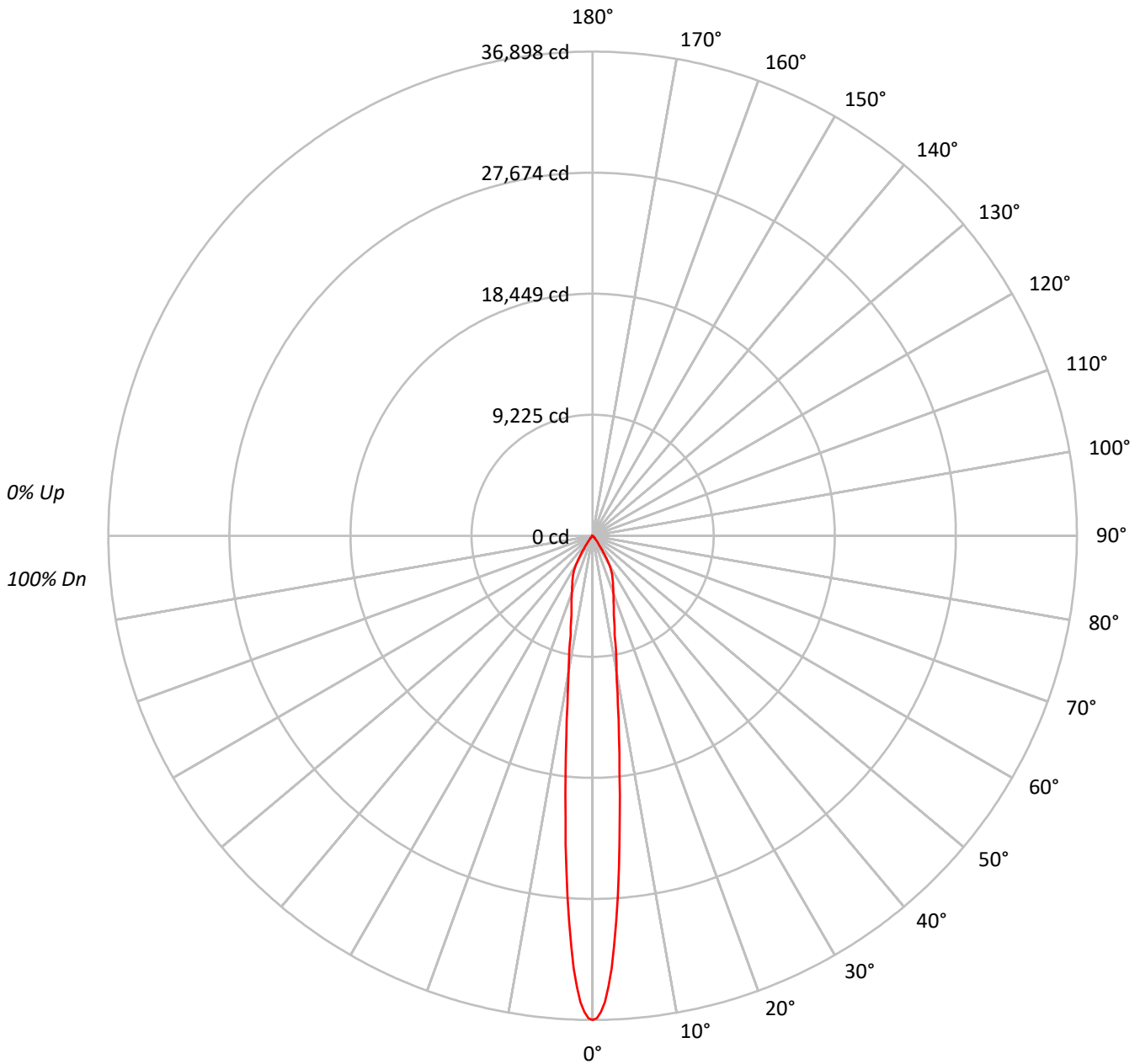
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1137789
5°	729802
10°	329678
15°	198922
20°	151584
25°	122412
30°	89700
35°	32479
40°	12124
45°	5503
50°	1761
55°	435
60°	253
65°	299
70°	0
75°	0
80°	728
85°	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1798.2	29.7
10°-20°	1826.4	30.2
20°-30°	1635.0	27.0
30°-40°	658.6	10.9
40°-50°	108.0	1.8
50°-60°	9.8	0.2
60°-70°	3.5	0.1
70°-80°	2.7	0.0
80°-90°	3.9	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°	5259.6	87.0
0°-40°	5918.1	97.9
0°-60°	6036.0	99.8
0°-90°	6046.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6045.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	36898	
5°	23577	###
15°	6231	1826
25°	3598	1635
35°	863	659
45°	126	108
55°	8	10
65°	4	4
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	36897.7
0.5°	36783.7
1°	36307.5
1.5°	35542.4
2°	34382.5
2.5°	33010.9
3°	31293.5
3.5°	29409.1
4°	27545.0
4.5°	25457.2
5°	23576.9
5.5°	21529.8
6°	19869.3
6.5°	18139.5
7°	16780.2
7.5°	15343.5
8°	14187.6
8.5°	13027.7
9°	12156.8
9.5°	11196.2
10°	10528.8
12.5°	7765.3
15°	6231.1
17.5°	5323.5
20°	4619.3
22.5°	4057.7
25°	3597.8
27.5°	3137.9
30°	2519.2
32.5°	1619.8
35°	862.8
37.5°	476.2
40°	301.2
42.5°	199.5
45°	126.2
47.5°	77.4
50°	36.7
52.5°	12.2
55°	8.1
57.5°	4.1
60°	4.1
62.5°	4.1
65°	4.1



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	4.1
80°	4.1
82.5°	4.1
85°	4.1
87.5°	4.1
90°	0.0



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— 0°-180°







67.5°		4.1
70°		0.0



(END OF REPORT)