

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: P584953

Luminaire Tested: **HC855D010-HM82555835-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584953
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-HM82555835-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5089.1 lumens
Efficiency: N/A
Efficacy: 97.9 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

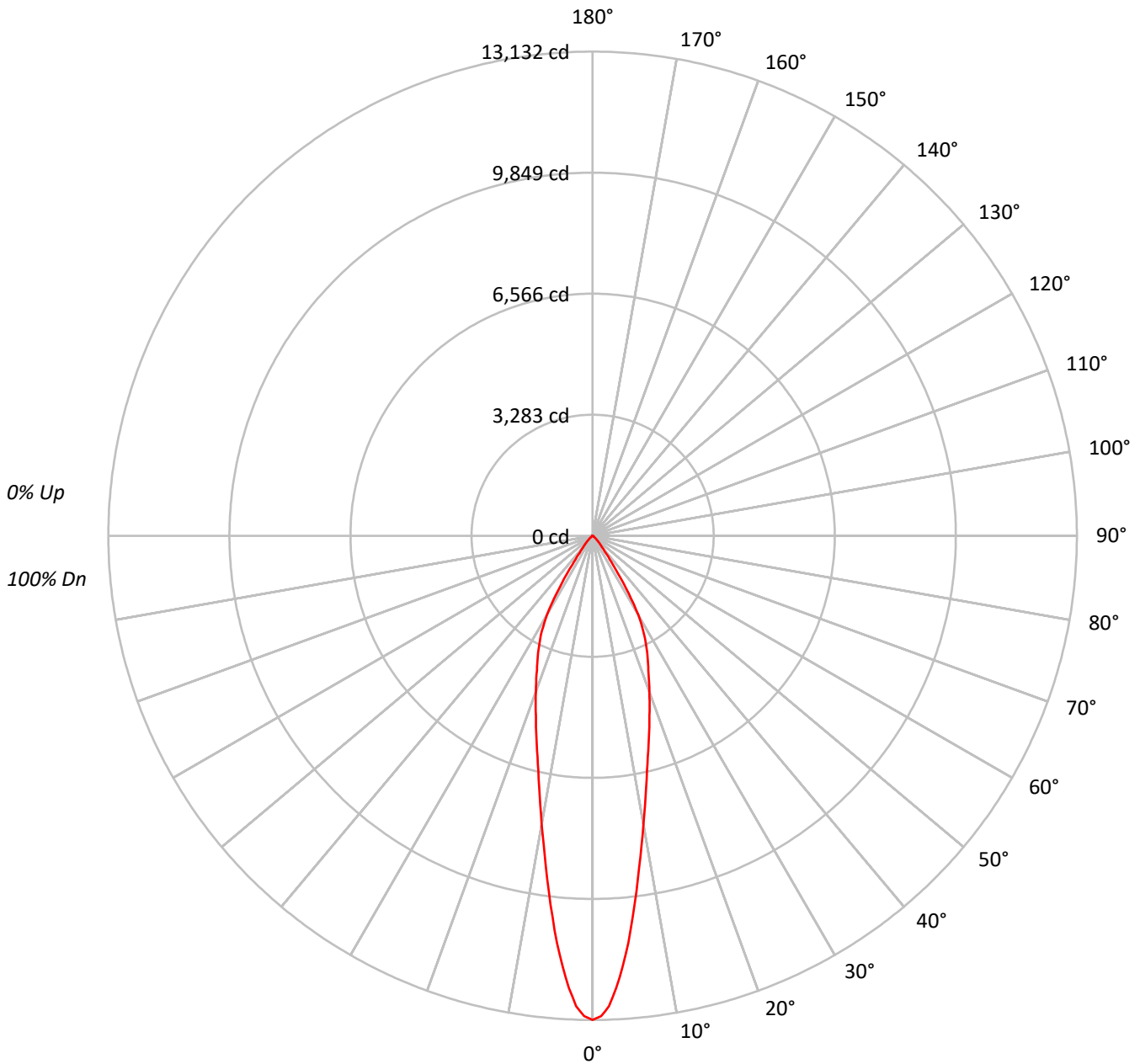
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	404936
5°	343064
10°	248912
15°	186922
20°	147488
25°	118965
30°	88162
35°	35713
40°	15063
45°	8076
50°	3627
55°	1828
60°	1166
65°	832
70°	685
75°	453
80°	675
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.6	18.7
10°-20°	1644.5	32.3
20°-30°	1590.0	31.2
30°-40°	698.3	13.7
40°-50°	150.9	3.0
50°-60°	33.9	0.7
60°-70°	11.7	0.2
70°-80°	4.5	0.1
80°-90°	3.6	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°	4186.1	82.3
0°-40°	4884.4	96.0
0°-60°	5069.3	99.6
0°-90°	5089.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5089.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13132	
5°	11083	952
15°	5855	1645
25°	3496	1590
35°	949	698
45°	185	151
55°	34	34
65°	11	12
75°	4	5
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13131.8
1°	13033.5
2°	12765.1
3°	12281.3
4°	11702.9
5°	11083.0
6°	10406.4
7°	9726.0
8°	9087.2
9°	8493.7
10°	7949.4
11°	7435.3
12°	6974.1
13°	6554.5
14°	6184.1
15°	5855.2
17.5°	5118.1
20°	4494.5
22.5°	3946.4
25°	3496.5
27.5°	3039.1
30°	2476.0
32.5°	1682.1
35°	948.7
37.5°	559.4
40°	374.2
42.5°	264.6
45°	185.2
47.5°	121.0
50°	75.6
52.5°	45.4
55°	34.0
57.5°	26.5
60°	18.9
62.5°	15.1
65°	11.4
67.5°	7.6
70°	7.6
72.5°	3.8
75°	3.8
77.5°	3.8
80°	3.8
82.5°	3.8



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.8
87.5°	3.8



(END OF REPORT)