

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: P584273

Luminaire Tested: **HC830D010-HM82555835-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584273
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: HC830D010-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: 3113.9 lumens
Efficiency: N/A
Efficacy: 111.2 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

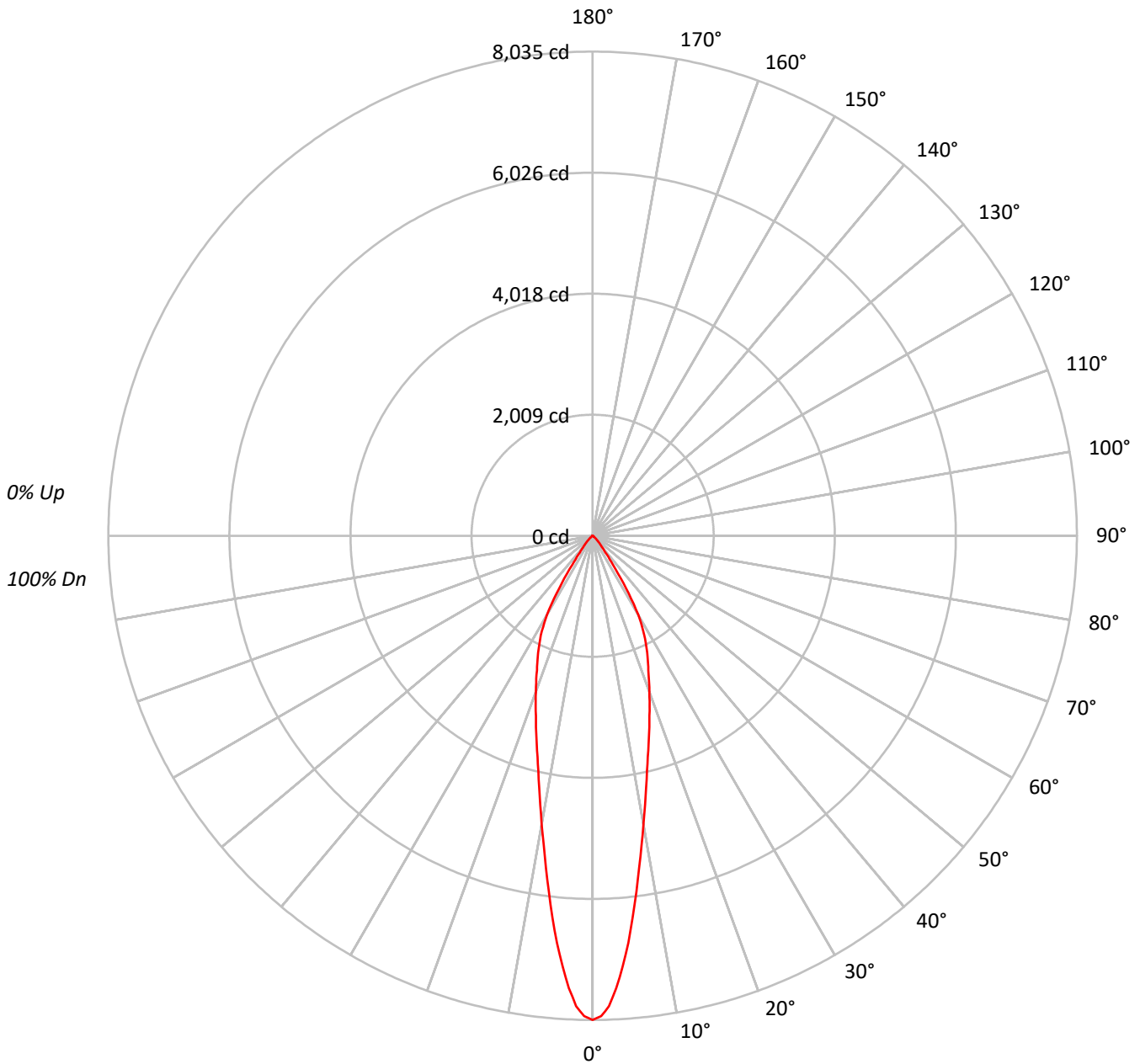
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	247782
5°	209921
10°	152308
15°	114378
20°	90249
25°	72795
30°	53944
35°	21856
40°	9218
45°	4941
50°	2221
55°	1118
60°	709
65°	503
70°	415
75°	274
80°	408
85°	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	18.7
10°-20°	1006.3	32.3
20°-30°	972.9	31.2
30°-40°	427.3	13.7
40°-50°	92.4	3.0
50°-60°	20.7	0.7
60°-70°	7.1	0.2
70°-80°	2.7	0.1
80°-90°	2.2	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°	2561.5	82.3
0°-40°	2988.8	96.0
0°-60°	3101.9	99.6
0°-90°	3113.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8035	
5°	6782	582
15°	3583	1006
25°	2140	973
35°	581	427
45°	113	92
55°	21	21
65°	7	7
75°	2	3
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8035.4
1°	7975.2
2°	7811.0
3°	7515.0
4°	7161.1
5°	6781.7
6°	6367.7
7°	5951.3
8°	5560.5
9°	5197.4
10°	4864.2
11°	4549.7
12°	4267.4
13°	4010.7
14°	3784.1
15°	3582.8
17.5°	3131.8
20°	2750.2
22.5°	2414.7
25°	2139.5
27.5°	1859.6
30°	1515.0
32.5°	1029.3
35°	580.6
37.5°	342.3
40°	229.0
42.5°	161.9
45°	113.3
47.5°	74.1
50°	46.3
52.5°	27.7
55°	20.8
57.5°	16.2
60°	11.5
62.5°	9.3
65°	6.9
67.5°	4.6
70°	4.6
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	2.3



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.3
87.5°	2.3



(END OF REPORT)