

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: P584511

Luminaire Tested: **HC840D010-HM82555827-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584511
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: HC840D010-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

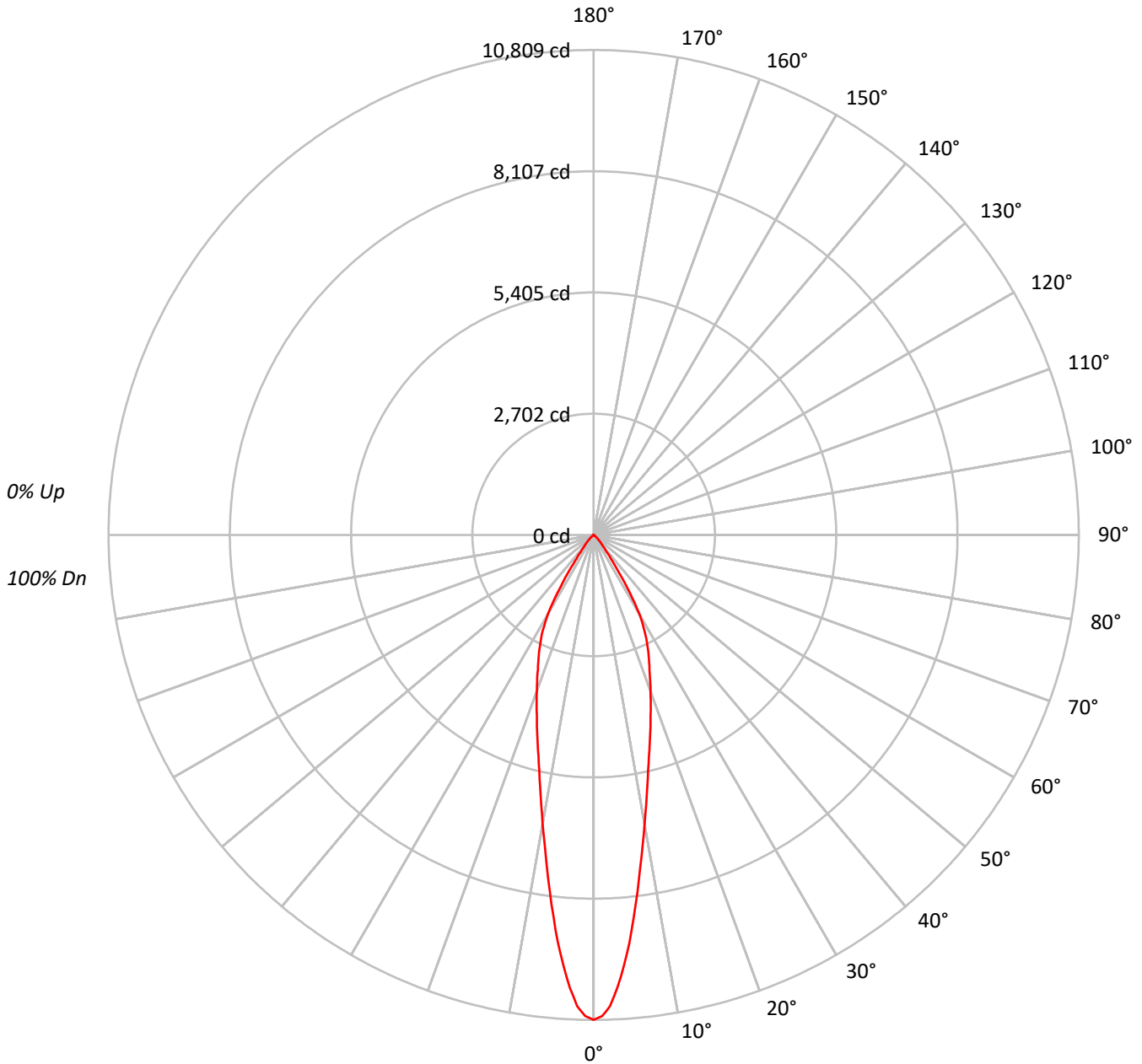
Lumens per Lamp: N/A
Luminaire Lumens: 4188.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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°	333304
5°	282376
10°	204878
15°	153858
20°	121397
25°	97921
30°	72563
35°	29400
40°	12398
45°	6646
50°	2984
55°	1505
60°	962
65°	679
70°	559
75°	369
80°	550
85°	1097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.2	18.7
10°-20°	1353.6	32.3
20°-30°	1308.7	31.2
30°-40°	574.8	13.7
40°-50°	124.2	3.0
50°-60°	27.9	0.7
60°-70°	9.6	0.2
70°-80°	3.7	0.1
80°-90°	3.0	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°	3445.6	82.3
0°-40°	4020.4	96.0
0°-60°	4172.6	99.6
0°-90°	4188.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4188.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10809	
5°	9122	783
15°	4820	1354
25°	2878	1309
35°	781	575
45°	152	124
55°	28	28
65°	9	10
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10808.8
1°	10728.0
2°	10507.0
3°	10108.8
4°	9632.7
5°	9122.4
6°	8565.5
7°	8005.5
8°	7479.6
9°	6991.1
10°	6543.1
11°	6120.1
12°	5740.4
13°	5395.1
14°	5090.1
15°	4819.5
17.5°	4212.7
20°	3699.4
22.5°	3248.2
25°	2878.0
27.5°	2501.5
30°	2037.9
32.5°	1384.6
35°	781.0
37.5°	460.5
40°	308.0
42.5°	217.8
45°	152.4
47.5°	99.6
50°	62.2
52.5°	37.4
55°	28.0
57.5°	21.8
60°	15.6
62.5°	12.5
65°	9.3
67.5°	6.2
70°	6.2
72.5°	3.1
75°	3.1
77.5°	3.1
80°	3.1
82.5°	3.1



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.1
87.5°	3.1



(END OF REPORT)