

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: P584528

Luminaire Tested: **HC840D010-HM82555830-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584528
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-HM82555830-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

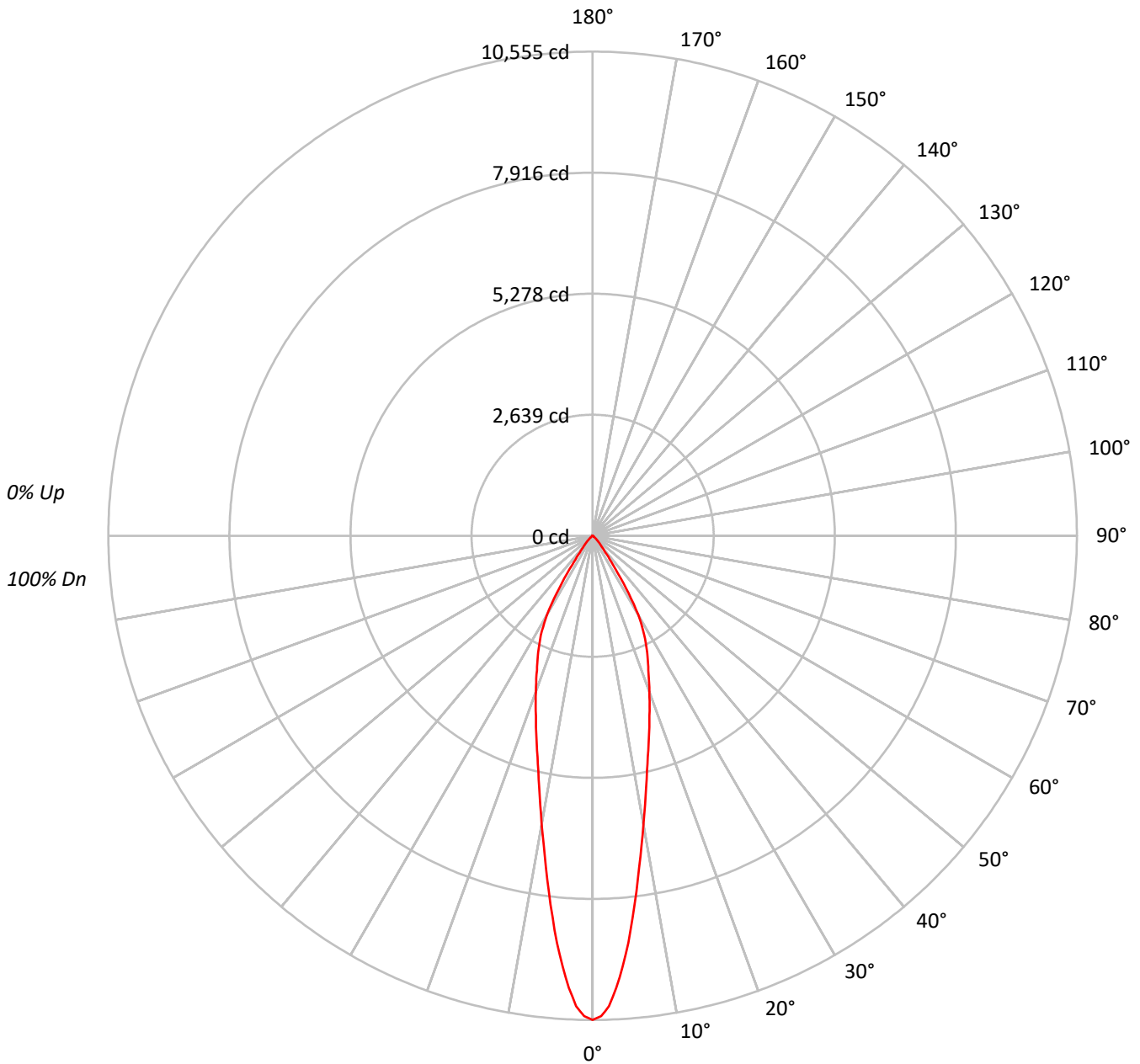
Lumens per Lamp: N/A
Luminaire Lumens: 4090.6 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (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	70	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°	325474
5°	275745
10°	200068
15°	150244
20°	118545
25°	95621
30°	70857
35°	28707
40°	12108
45°	6493
50°	2917
55°	1473
60°	937
65°	671
70°	550
75°	369
80°	550
85°	1097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.9	18.7
10°-20°	1321.8	32.3
20°-30°	1278.0	31.2
30°-40°	561.3	13.7
40°-50°	121.3	3.0
50°-60°	27.3	0.7
60°-70°	9.4	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°	3364.7	82.3
0°-40°	3926.0	96.0
0°-60°	4074.6	99.6
0°-90°	4090.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10555	
5°	8908	765
15°	4706	1322
25°	2810	1278
35°	763	561
45°	149	121
55°	27	27
65°	9	9
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10554.9
1°	10475.9
2°	10260.2
3°	9871.3
4°	9406.5
5°	8908.2
6°	8364.4
7°	7817.5
8°	7304.0
9°	6827.0
10°	6389.5
11°	5976.3
12°	5605.6
13°	5268.4
14°	4970.6
15°	4706.3
17.5°	4113.8
20°	3612.5
22.5°	3171.9
25°	2810.4
27.5°	2442.7
30°	1990.0
32.5°	1352.1
35°	762.6
37.5°	449.7
40°	300.8
42.5°	212.7
45°	148.9
47.5°	97.2
50°	60.8
52.5°	36.4
55°	27.4
57.5°	21.3
60°	15.2
62.5°	12.1
65°	9.2
67.5°	6.1
70°	6.1
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)