

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: P584622

Luminaire Tested: **HC840D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4918.5 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

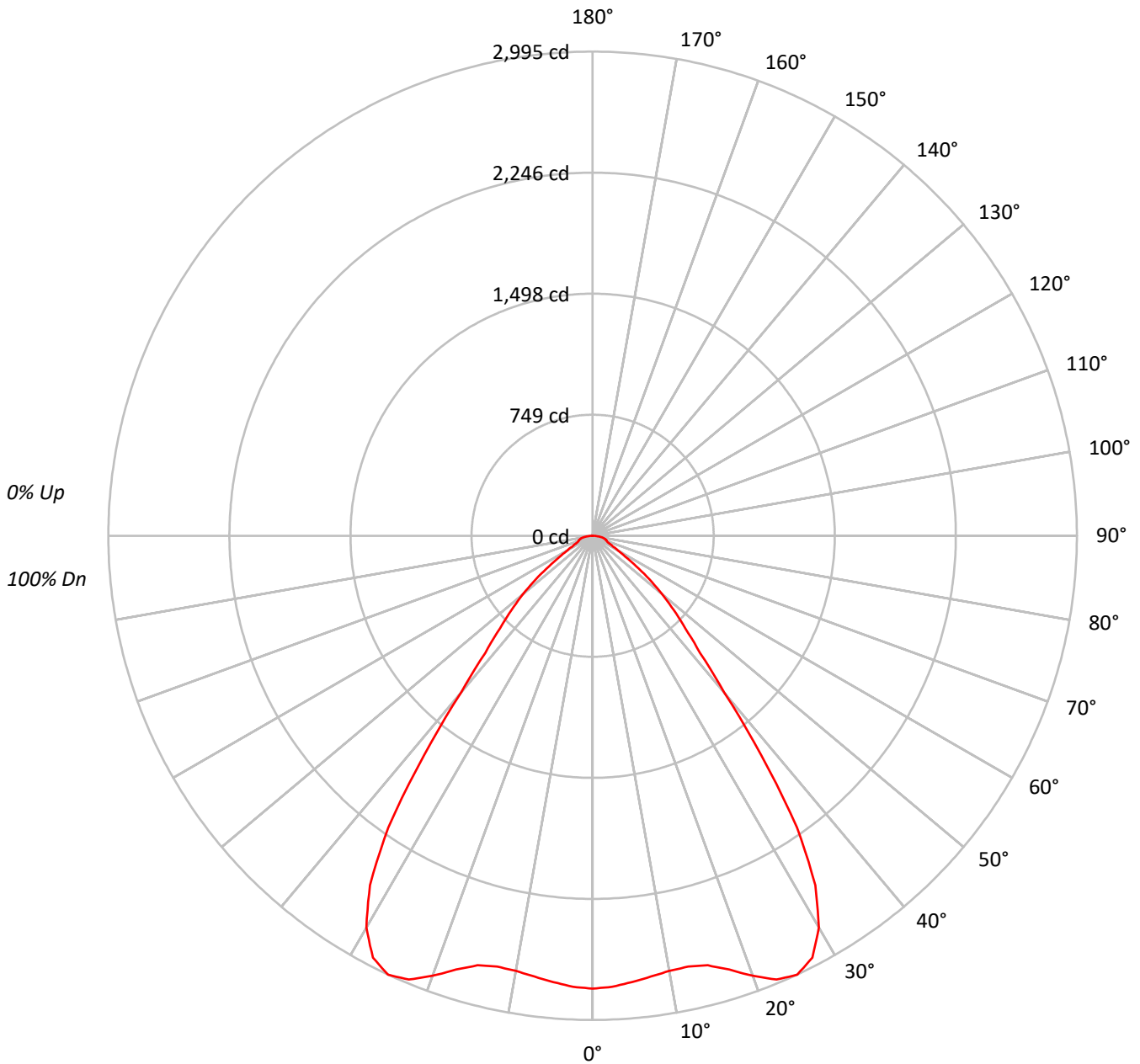
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86382
5°	85786
10°	85563
15°	87804
20°	95059
25°	101912
30°	99638
35°	82968
40°	50974
45°	35293
50°	26932
55°	17666
60°	11052
65°	8282
70°	8349
75°	9615
80°	10601
85°	9517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	5.4
10°-20°	789.6	16.1
20°-30°	1359.2	27.6
30°-40°	1316.9	26.8
40°-50°	648.7	13.2
50°-60°	306.1	6.2
60°-70°	120.6	2.5
70°-80°	83.2	1.7
80°-90°	30.8	0.6
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°	2412.1	49.0
0°-40°	3729.0	75.8
0°-60°	4683.8	95.2
0°-90°	4918.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2801	
5°	2771	263
15°	2750	790
25°	2995	1359
35°	2204	1317
45°	809	649
55°	329	306
65°	114	121
75°	81	83
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2801.3
2.5°	2792.3
5°	2771.4
7.5°	2750.4
10°	2732.6
12.5°	2729.6
15°	2750.4
17.5°	2813.2
20°	2896.8
22.5°	2971.4
25°	2995.3
27.5°	2941.7
30°	2798.3
32.5°	2562.3
35°	2204.0
37.5°	1711.2
40°	1266.3
42.5°	982.6
45°	809.3
47.5°	680.9
50°	561.4
52.5°	442.0
55°	328.6
57.5°	239.0
60°	179.2
62.5°	140.4
65°	113.5
67.5°	98.5
70°	92.6
72.5°	86.6
75°	80.7
77.5°	71.6
80°	59.7
82.5°	44.7
85°	26.9
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)