

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: P584553

Luminaire Tested: **HC840D010-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4918.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

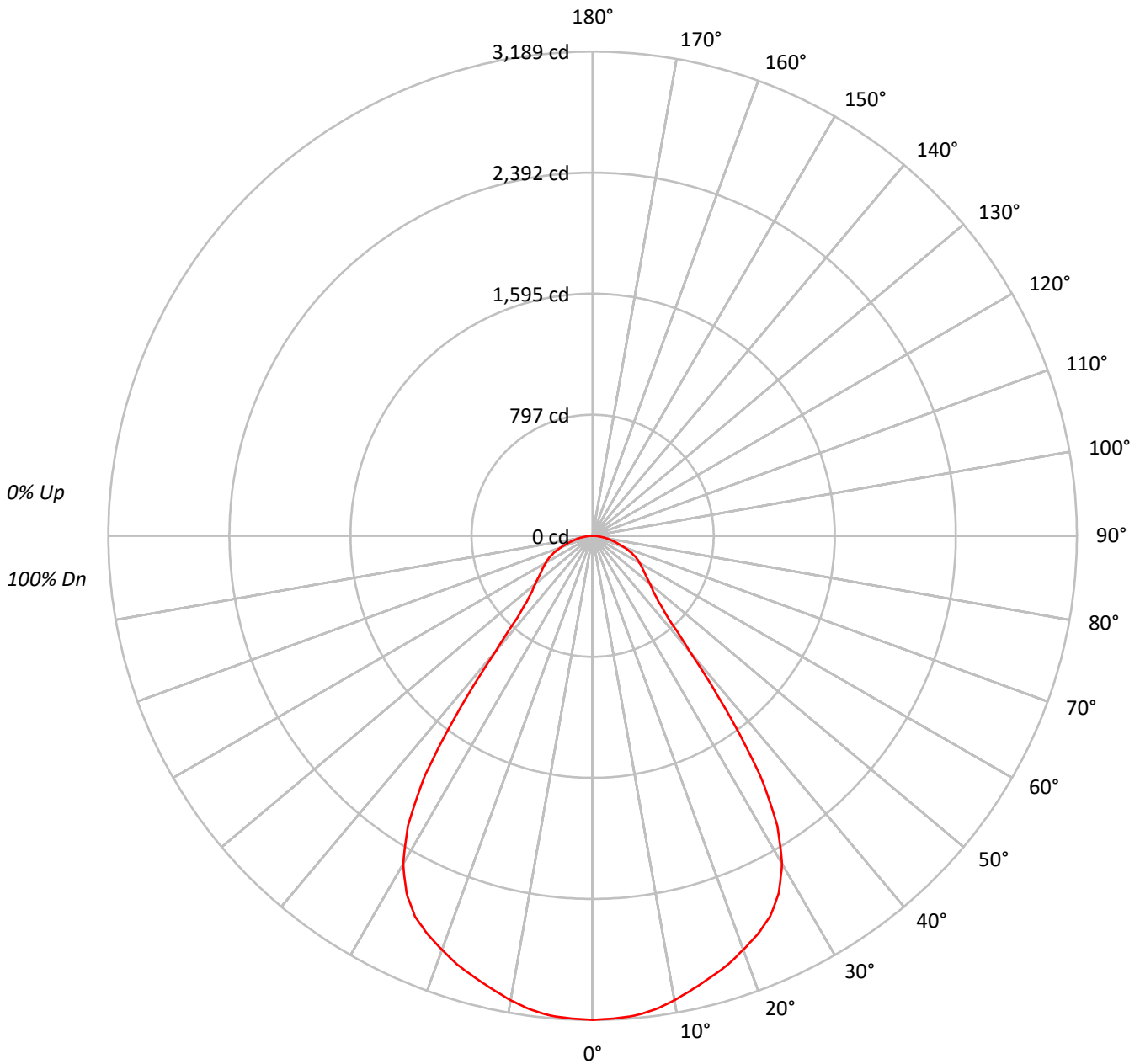
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98337
5°	98217
10°	97249
15°	96079
20°	95194
25°	94124
30°	88810
35°	72314
40°	39956
45°	26667
50°	23651
55°	22203
60°	21925
65°	21722
70°	19637
75°	17550
80°	15343
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	6.1
10°-20°	849.8	17.3
20°-30°	1262.7	25.7
30°-40°	1137.1	23.1
40°-50°	504.1	10.2
50°-60°	373.4	7.6
60°-70°	290.3	5.9
70°-80°	157.4	3.2
80°-90°	43.1	0.9
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°	2413.3	49.1
0°-40°	3550.4	72.2
0°-60°	4427.9	90.0
0°-90°	4918.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3189	
5°	3173	301
15°	3010	850
25°	2766	1263
35°	1921	1137
45°	612	504
55°	413	373
65°	298	290
75°	147	157
85°	38	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3189.0
2.5°	3182.5
5°	3173.0
7.5°	3147.3
10°	3105.8
12.5°	3057.7
15°	3009.6
17.5°	2961.7
20°	2900.9
22.5°	2839.9
25°	2766.4
27.5°	2654.3
30°	2494.2
32.5°	2263.6
35°	1921.0
37.5°	1434.4
40°	992.6
42.5°	733.2
45°	611.5
47.5°	541.1
50°	493.0
52.5°	448.3
55°	413.0
57.5°	384.3
60°	355.5
62.5°	329.7
65°	297.7
67.5°	259.3
70°	217.8
72.5°	182.5
75°	147.3
77.5°	115.3
80°	86.4
82.5°	60.8
85°	38.4
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)