

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: P584537

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584537
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-HM82555830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4975.6 lumens
Efficiency: N/A
Efficacy: 121.4 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

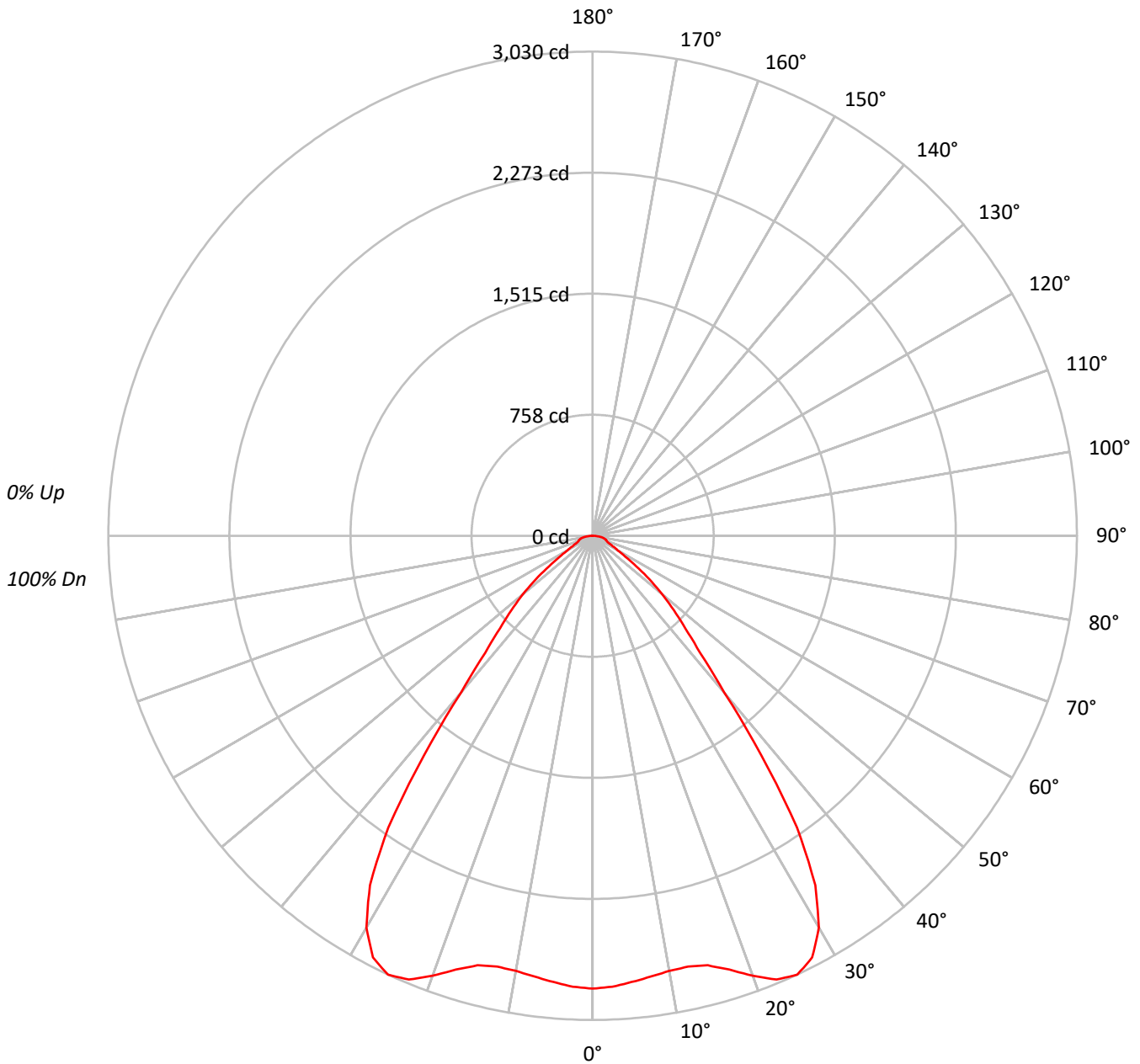
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	87381
5°	86780
10°	86556
15°	88829
20°	96165
25°	103096
30°	100795
35°	83931
40°	51561
45°	35703
50°	27249
55°	17870
60°	11175
65°	8376
70°	8448
75°	9710
80°	10744
85°	9588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	5.4
10°-20°	798.7	16.1
20°-30°	1375.0	27.6
30°-40°	1332.2	26.8
40°-50°	656.2	13.2
50°-60°	309.7	6.2
60°-70°	122.0	2.5
70°-80°	84.2	1.7
80°-90°	31.2	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°	2440.1	49.0
0°-40°	3772.3	75.8
0°-60°	4738.2	95.2
0°-90°	4975.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4975.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2834	
5°	2804	266
15°	2782	799
25°	3030	1375
35°	2230	1332
45°	819	656
55°	332	310
65°	115	122
75°	82	84
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2833.7
2.5°	2824.7
5°	2803.5
7.5°	2782.5
10°	2764.3
12.5°	2761.3
15°	2782.5
17.5°	2845.9
20°	2930.5
22.5°	3005.9
25°	3030.1
27.5°	2975.7
30°	2830.8
32.5°	2592.1
35°	2229.6
37.5°	1731.1
40°	1280.9
42.5°	993.9
45°	818.7
47.5°	688.8
50°	568.0
52.5°	447.1
55°	332.4
57.5°	241.7
60°	181.2
62.5°	142.0
65°	114.8
67.5°	99.7
70°	93.7
72.5°	87.6
75°	81.5
77.5°	72.5
80°	60.5
82.5°	45.3
85°	27.1
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)