

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: P584638

Luminaire Tested: **HC840D010-HM82555940-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584638
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-HM82555940-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5070.3 lumens
Efficiency: N/A
Efficacy: 123.7 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

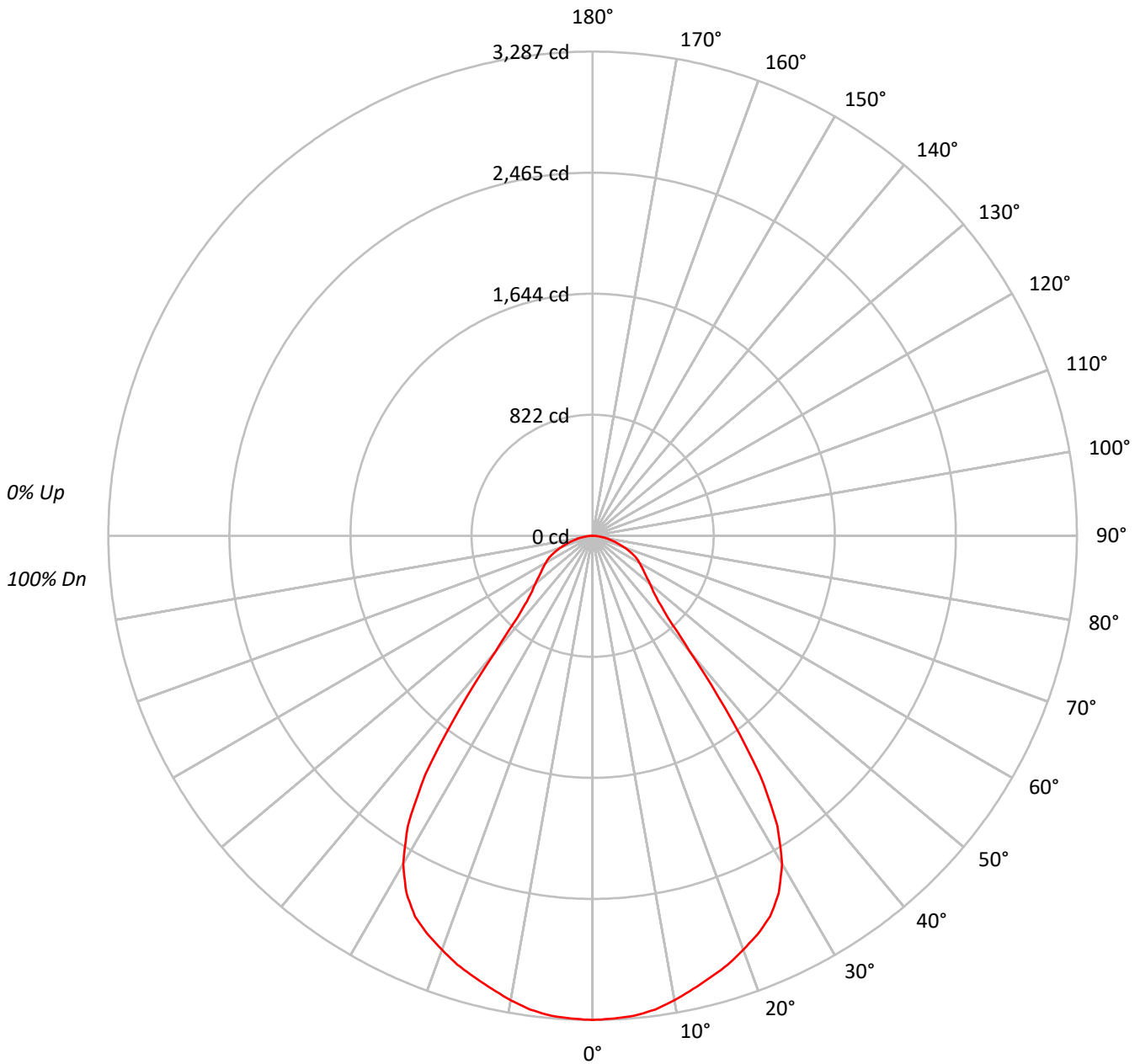
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101368
5°	101242
10°	100245
15°	99041
20°	98124
25°	97023
30°	91545
35°	74547
40°	41188
45°	27487
50°	24380
55°	22892
60°	22597
65°	22393
70°	20232
75°	18086
80°	15822
85°	14011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	6.1
10°-20°	876.0	17.3
20°-30°	1301.6	25.7
30°-40°	1172.2	23.1
40°-50°	519.6	10.2
50°-60°	384.9	7.6
60°-70°	299.3	5.9
70°-80°	162.2	3.2
80°-90°	44.4	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°	2487.6	49.1
0°-40°	3659.8	72.2
0°-60°	4564.3	90.0
0°-90°	5070.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5070.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3287	
5°	3271	310
15°	3102	876
25°	2852	1302
35°	1980	1172
45°	630	520
55°	426	385
65°	307	299
75°	152	162
85°	40	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3287.3
2.5°	3280.6
5°	3270.7
7.5°	3244.3
10°	3201.5
12.5°	3152.0
15°	3102.4
17.5°	3052.9
20°	2990.2
22.5°	2927.5
25°	2851.6
27.5°	2736.0
30°	2571.0
32.5°	2333.4
35°	1980.3
37.5°	1478.6
40°	1023.2
42.5°	755.8
45°	630.3
47.5°	557.8
50°	508.2
52.5°	462.1
55°	425.8
57.5°	396.0
60°	366.4
62.5°	340.0
65°	306.9
67.5°	267.4
70°	224.4
72.5°	188.1
75°	151.8
77.5°	118.8
80°	89.1
82.5°	62.7
85°	39.6
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)