

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: P585284

Luminaire Tested: **HC880D010-HM86080930-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585284
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: HC880D010-HM86080930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5960.5 lumens
Efficiency: N/A
Efficacy: 85.2 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

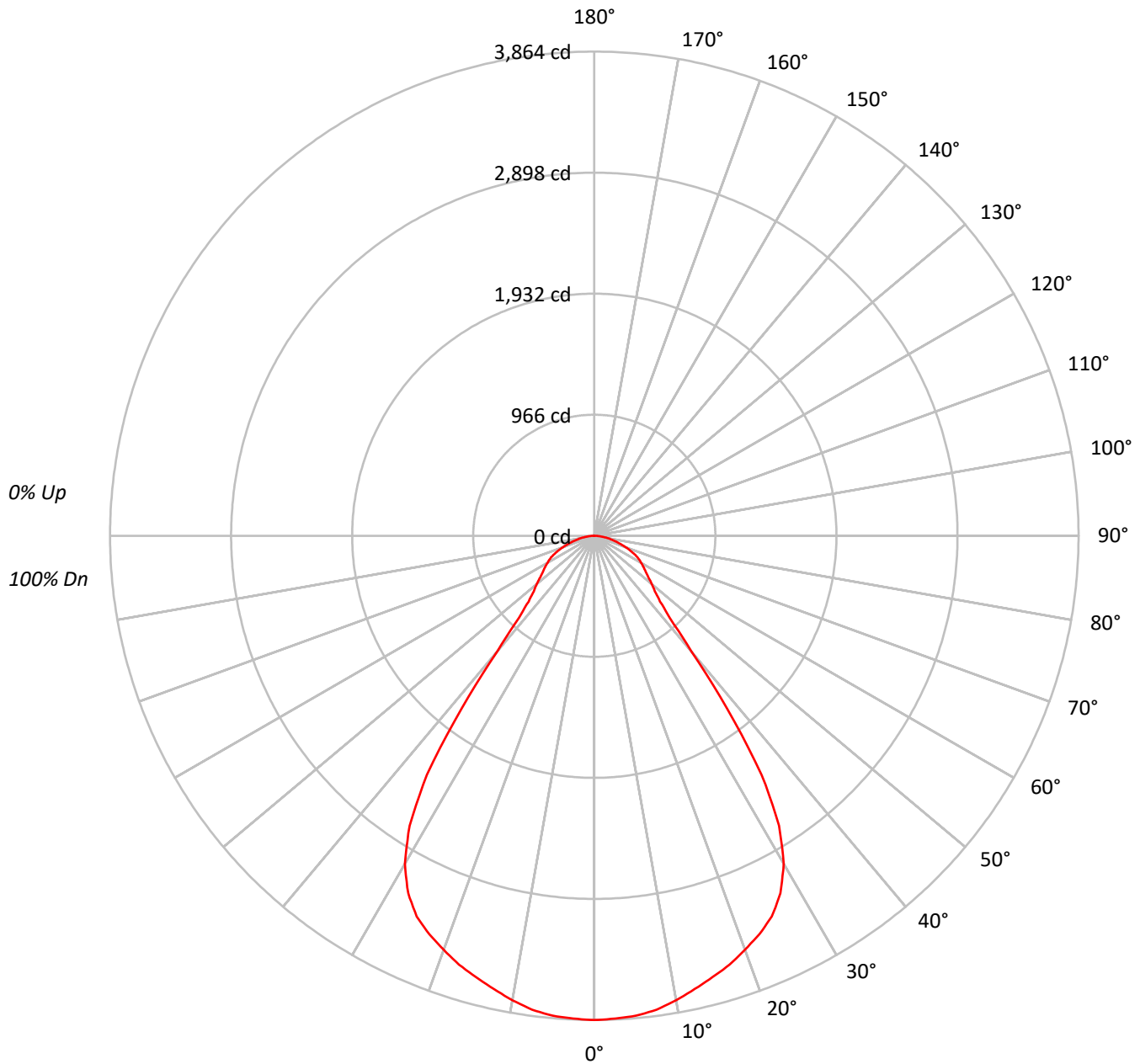
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62
7	74	63	56	50	73	62	55	50	61	54	50		59	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119164
5°	119019
10°	117843
15°	116430
20°	115352
25°	114059
30°	107618
35°	87632
40°	48417
45°	32319
50°	28664
55°	26908
60°	26562
65°	26333
70°	23784
75°	21267
80°	18610
85°	16487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	6.1
10°-20°	1029.8	17.3
20°-30°	1530.2	25.7
30°-40°	1378.0	23.1
40°-50°	610.9	10.2
50°-60°	452.4	7.6
60°-70°	351.8	5.9
70°-80°	190.8	3.2
80°-90°	52.3	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°	2924.4	49.1
0°-40°	4302.3	72.2
0°-60°	5365.7	90.0
0°-90°	5960.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5960.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3864	
5°	3845	364
15°	3647	1030
25°	3352	1530
35°	2328	1378
45°	741	611
55°	500	452
65°	361	352
75°	178	191
85°	47	52
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3864.4
2.5°	3856.6
5°	3845.0
7.5°	3814.0
10°	3763.5
12.5°	3705.3
15°	3647.1
17.5°	3588.9
20°	3515.2
22.5°	3441.4
25°	3352.3
27.5°	3216.5
30°	3022.4
32.5°	2743.0
35°	2327.9
37.5°	1738.2
40°	1202.8
42.5°	888.5
45°	741.1
47.5°	655.7
50°	597.5
52.5°	543.1
55°	500.5
57.5°	465.6
60°	430.7
62.5°	399.6
65°	360.9
67.5°	314.3
70°	263.8
72.5°	221.2
75°	178.5
77.5°	139.7
80°	104.8
82.5°	73.7
85°	46.6
87.5°	19.4
90°	0.0



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— 0°-180°







(END OF REPORT)