

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: P585097

Luminaire Tested: **HC860D010-HM86080835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585097
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: HC860D010-HM86080835-81WDW
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: 6394.4 lumens
Efficiency: N/A
Efficacy: 114.2 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

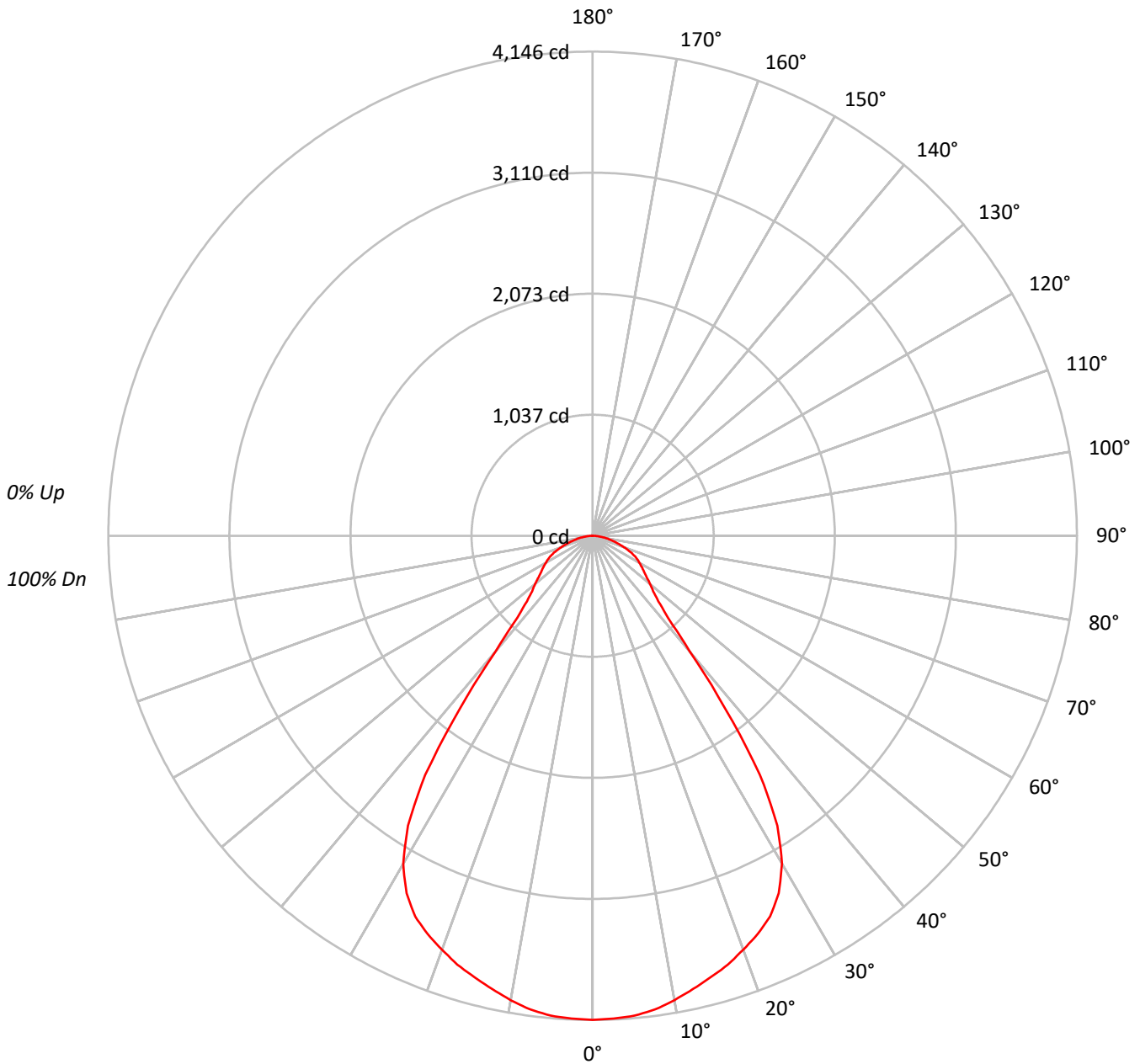
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	127838
5°	127683
10°	126422
15°	124906
20°	123747
25°	122361
30°	115451
35°	94016
40°	51940
45°	34669
50°	30755
55°	28865
60°	28499
65°	28245
70°	25515
75°	22816
80°	19942
85°	17655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	6.1
10°-20°	1104.8	17.3
20°-30°	1641.5	25.7
30°-40°	1478.3	23.1
40°-50°	655.4	10.2
50°-60°	485.4	7.6
60°-70°	377.4	5.9
70°-80°	204.6	3.2
80°-90°	56.0	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°	3137.2	49.1
0°-40°	4615.6	72.2
0°-60°	5756.3	90.0
0°-90°	6394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6394.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4146	
5°	4125	391
15°	3913	1105
25°	3596	1642
35°	2498	1478
45°	795	655
55°	537	485
65°	387	377
75°	192	205
85°	50	56
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4145.7
2.5°	4137.4
5°	4124.9
7.5°	4091.6
10°	4037.5
12.5°	3975.1
15°	3912.6
17.5°	3850.2
20°	3771.0
22.5°	3692.0
25°	3596.3
27.5°	3450.6
30°	3242.4
32.5°	2942.8
35°	2497.5
37.5°	1864.7
40°	1290.3
42.5°	953.2
45°	795.0
47.5°	703.5
50°	641.1
52.5°	582.7
55°	536.9
57.5°	499.5
60°	462.1
62.5°	428.7
65°	387.1
67.5°	337.1
70°	283.0
72.5°	237.3
75°	191.5
77.5°	149.8
80°	112.3
82.5°	79.1
85°	49.9
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)