

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: P585080

Luminaire Tested: **HC860D010-HM86080830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585080
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-HM86080830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5316.6 lumens
Efficiency: N/A
Efficacy: 94.9 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

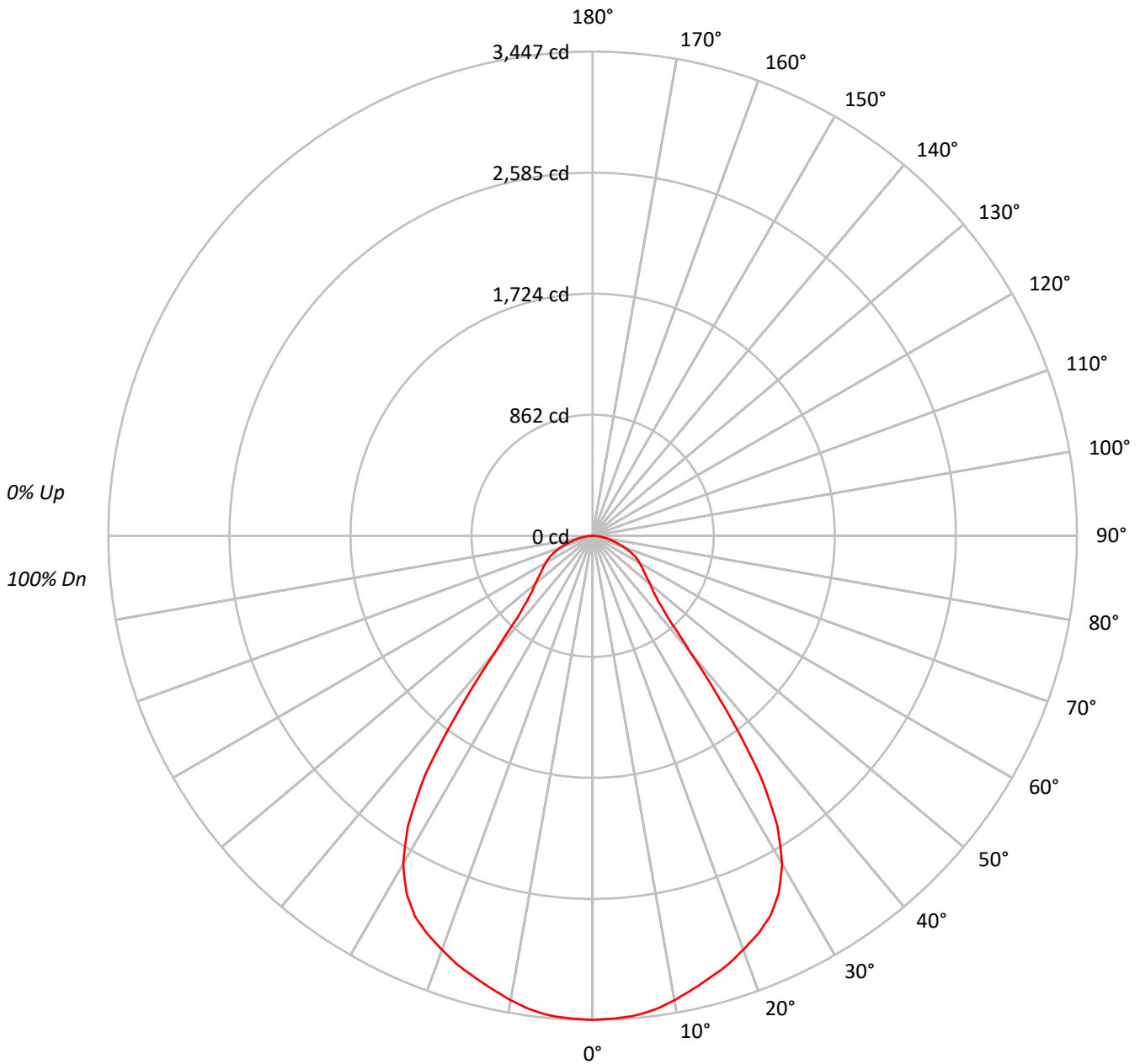
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106290
5°	106160
10°	105114
15°	103855
20°	102889
25°	101735
30°	95996
35°	78168
40°	43188
45°	28826
50°	25569
55°	24004
60°	23695
65°	23480
70°	21214
75°	18967
80°	16586
85°	14683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.0	6.1
10°-20°	918.6	17.3
20°-30°	1364.9	25.7
30°-40°	1229.1	23.1
40°-50°	544.9	10.2
50°-60°	403.6	7.6
60°-70°	313.8	5.9
70°-80°	170.1	3.2
80°-90°	46.6	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°	2608.5	49.1
0°-40°	3837.6	72.2
0°-60°	4786.1	90.0
0°-90°	5316.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5316.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3447	
5°	3430	325
15°	3253	919
25°	2990	1365
35°	2076	1229
45°	661	545
55°	446	404
65°	322	314
75°	159	170
85°	42	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3446.9
2.5°	3440.0
5°	3429.6
7.5°	3402.0
10°	3357.0
12.5°	3305.1
15°	3253.2
17.5°	3201.3
20°	3135.4
22.5°	3069.7
25°	2990.1
27.5°	2869.0
30°	2696.0
32.5°	2446.7
35°	2076.5
37.5°	1550.4
40°	1072.9
42.5°	792.5
45°	661.0
47.5°	584.9
50°	533.0
52.5°	484.5
55°	446.5
57.5°	415.3
60°	384.2
62.5°	356.5
65°	321.8
67.5°	280.3
70°	235.3
72.5°	197.2
75°	159.2
77.5°	124.6
80°	93.4
82.5°	65.7
85°	41.5
87.5°	17.3
90°	0.0



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— 0°-180°







(END OF REPORT)