

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: P593882

Luminaire Tested: **HC860D010-HM86080950-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080950-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.8 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

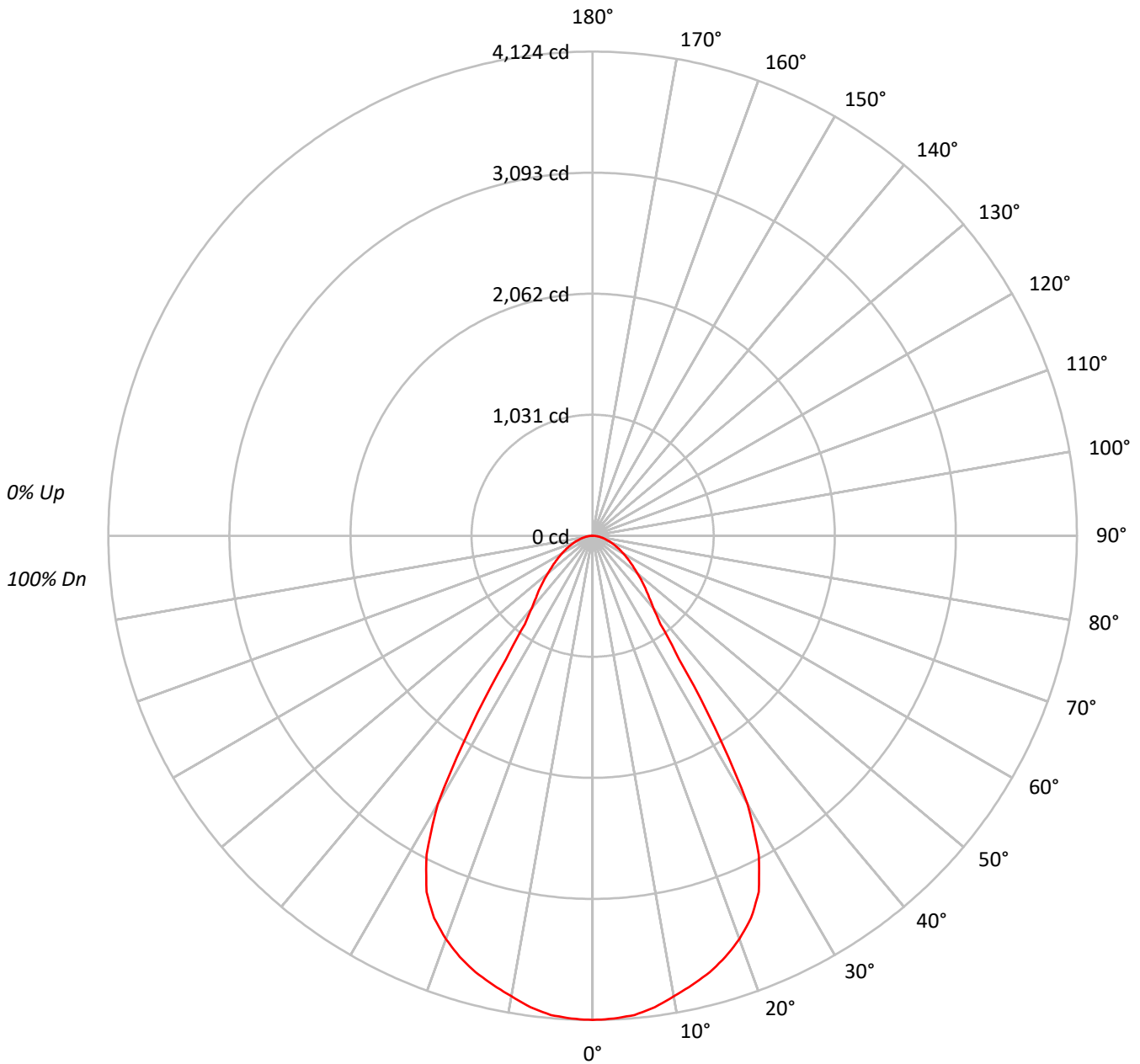
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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																											
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																											
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																											
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																											
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																											
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																											
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																											
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127169
5°	126825
10°	124713
15°	122892
20°	119943
25°	113858
30°	93913
35°	48350
40°	32372
45°	27753
50°	23953
55°	20902
60°	18576
65°	16687
70°	15120
75°	13618
80°	12182
85°	12136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	7.6
10°-20°	1083.0	21.2
20°-30°	1500.6	29.4
30°-40°	901.3	17.7
40°-50°	493.4	9.7
50°-60°	350.5	6.9
60°-70°	227.6	4.5
70°-80°	121.6	2.4
80°-90°	36.3	0.7
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°	2971.1	58.2
0°-40°	3872.4	75.9
0°-60°	4716.4	92.4
0°-90°	5101.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4124	
5°	4097	387
15°	3850	1083
25°	3346	1501
35°	1284	901
45°	636	493
55°	389	351
65°	229	228
75°	114	122
85°	34	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4124.0
2.5°	4116.3
5°	4097.2
7.5°	4051.5
10°	3982.9
12.5°	3918.1
15°	3849.5
17.5°	3761.8
20°	3655.1
22.5°	3525.6
25°	3346.4
27.5°	3064.4
30°	2637.5
32.5°	1932.4
35°	1284.4
37.5°	949.0
40°	804.2
42.5°	712.7
45°	636.4
47.5°	564.1
50°	499.3
52.5°	438.3
55°	388.8
57.5°	343.0
60°	301.2
62.5°	263.0
65°	228.7
67.5°	194.3
70°	167.7
72.5°	137.3
75°	114.3
77.5°	91.5
80°	68.6
82.5°	49.6
85°	34.3
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)