

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: P585183

Luminaire Tested: **HC860D010-HM86080940-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080940-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6275.4 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

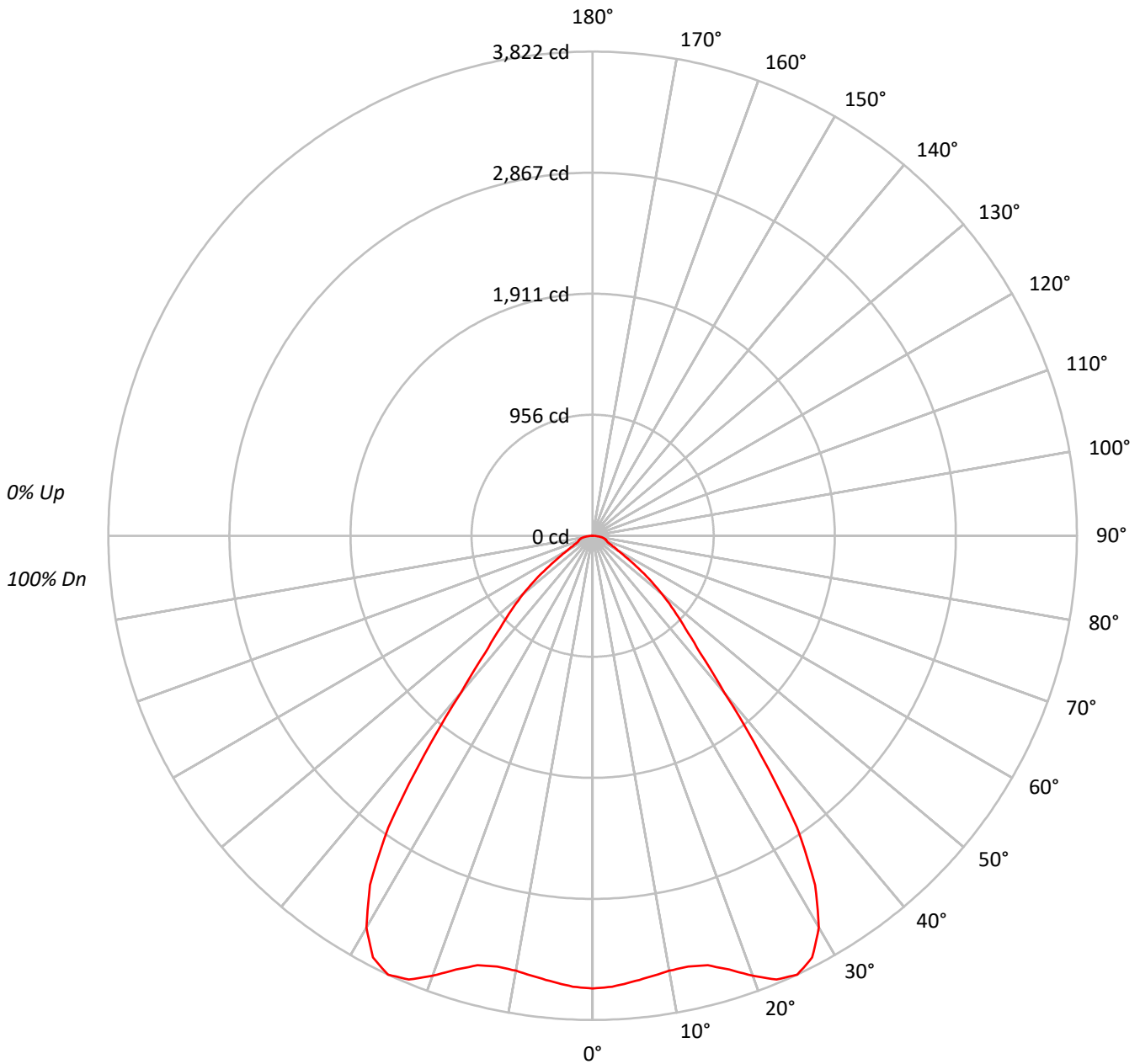
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																											
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																											
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																											
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																											
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																											
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																											
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																											
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																											
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																											
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																											

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	110209
5°	109454
10°	109166
15°	112031
20°	121285
25°	130030
30°	127123
35°	105855
40°	65034
45°	45031
50°	34368
55°	22531
60°	14098
65°	10565
70°	10648
75°	12260
80°	13532
85°	12136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.0	5.4
10°-20°	1007.4	16.1
20°-30°	1734.2	27.6
30°-40°	1680.2	26.8
40°-50°	827.6	13.2
50°-60°	390.5	6.2
60°-70°	153.9	2.5
70°-80°	106.2	1.7
80°-90°	39.4	0.6
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°	3077.6	49.0
0°-40°	4757.8	75.8
0°-60°	5975.9	95.2
0°-90°	6275.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6275.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3574	
5°	3536	336
15°	3509	1007
25°	3822	1734
35°	2812	1680
45°	1033	828
55°	419	391
65°	145	154
75°	103	106
85°	34	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3574.0
2.5°	3562.6
5°	3536.0
7.5°	3509.3
10°	3486.4
12.5°	3482.6
15°	3509.3
17.5°	3589.3
20°	3696.0
22.5°	3791.2
25°	3821.7
27.5°	3753.2
30°	3570.2
32.5°	3269.2
35°	2812.0
37.5°	2183.3
40°	1615.6
42.5°	1253.6
45°	1032.6
47.5°	868.7
50°	716.4
52.5°	563.9
55°	419.1
57.5°	304.8
60°	228.6
62.5°	179.1
65°	144.8
67.5°	125.7
70°	118.1
72.5°	110.5
75°	102.9
77.5°	91.5
80°	76.2
82.5°	57.2
85°	34.3
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)