

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: P585053

Luminaire Tested: **HC860D010-HM86080827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5163.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

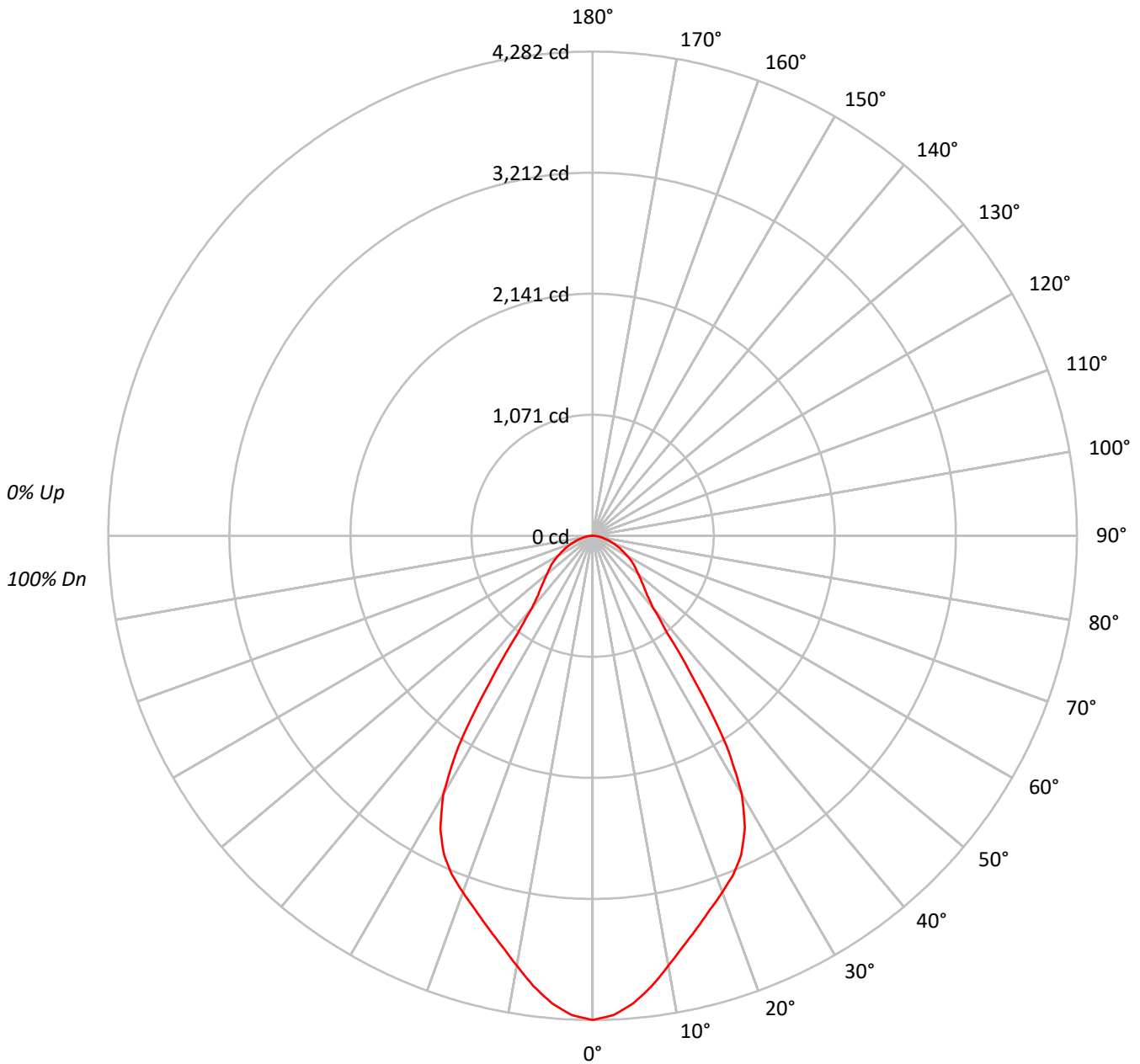
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

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

	0°
0°	132035
5°	128435
10°	120861
15°	114429
20°	110072
25°	105825
30°	93980
35°	59854
40°	33407
45°	27975
50°	25258
55°	23806
60°	21715
65°	19591
70°	17293
75°	15381
80°	13620
85°	12312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.8	7.5
10°-20°	1010.9	19.6
20°-30°	1410.3	27.3
30°-40°	1014.8	19.7
40°-50°	502.9	9.7
50°-60°	393.5	7.6
60°-70°	266.4	5.2
70°-80°	138.4	2.7
80°-90°	39.8	0.8
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°	2808.0	54.4
0°-40°	3822.7	74.0
0°-60°	4719.1	91.4
0°-90°	5163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5163.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4282	
5°	4149	387
15°	3584	1011
25°	3110	1410
35°	1590	1015
45°	642	503
55°	443	393
65°	268	266
75°	129	138
85°	35	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4281.8
2.5°	4243.5
5°	4149.2
7.5°	4016.8
10°	3859.9
12.5°	3713.4
15°	3584.4
17.5°	3462.4
20°	3354.3
22.5°	3246.2
25°	3110.3
27.5°	2915.0
30°	2639.4
32.5°	2207.1
35°	1590.0
37.5°	1084.4
40°	829.9
42.5°	714.8
45°	641.5
47.5°	578.8
50°	526.5
52.5°	481.2
55°	442.8
57.5°	397.5
60°	352.1
62.5°	306.8
65°	268.5
67.5°	230.1
70°	191.8
72.5°	160.4
75°	129.1
77.5°	101.2
80°	76.7
82.5°	55.8
85°	34.8
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)