

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: P593866

Luminaire Tested: **HC860D010-HM86080850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6482.9 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

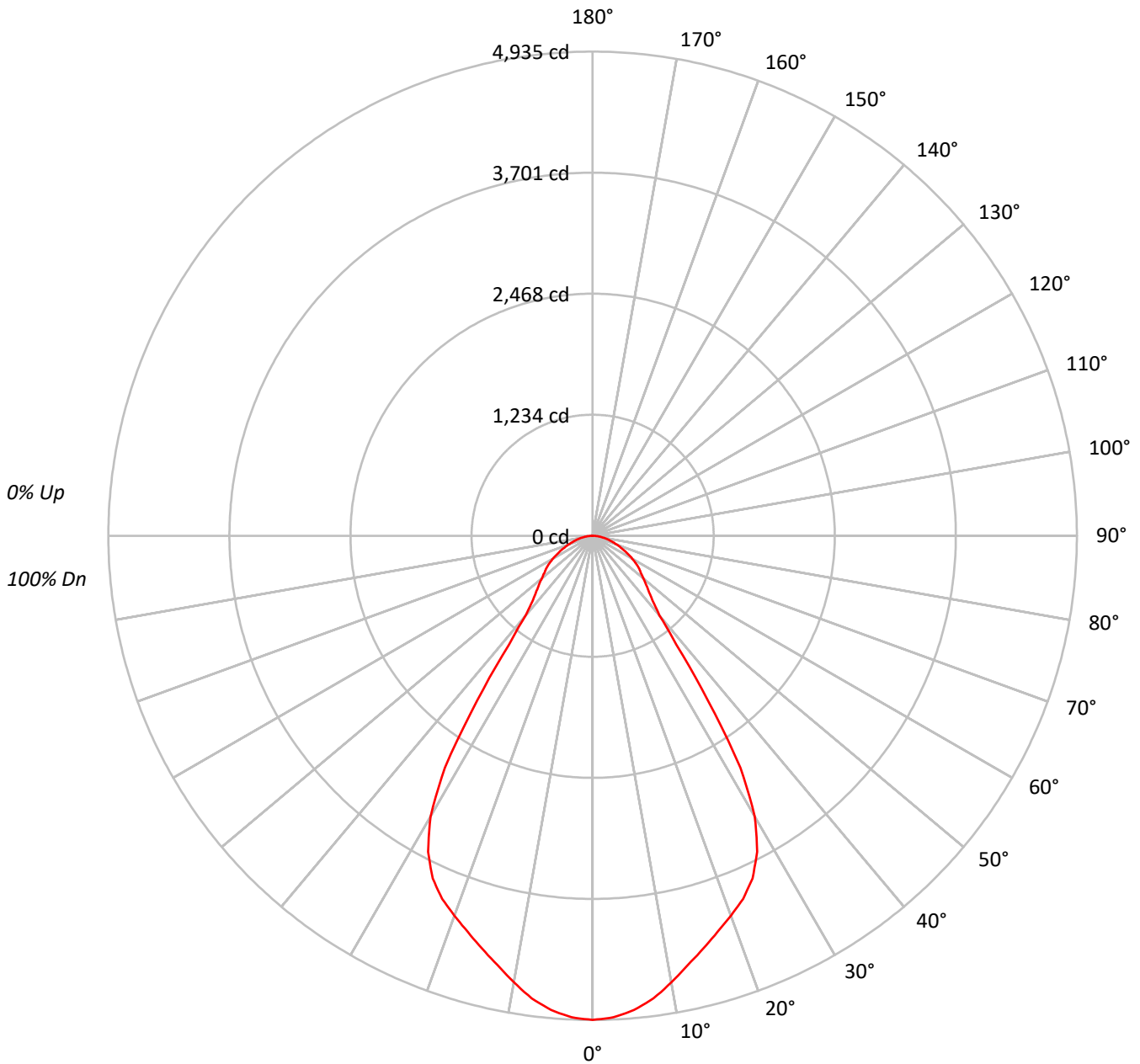
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	152174
5°	150192
10°	144693
15°	139033
20°	135189
25°	131119
30°	117662
35°	77129
40°	42645
45°	35550
50°	32415
55°	30934
60°	28764
65°	26078
70°	23586
75°	21303
80°	19356
85°	18539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.9	7.0
10°-20°	1228.7	19.0
20°-30°	1748.6	27.0
30°-40°	1294.2	20.0
40°-50°	641.0	9.9
50°-60°	511.6	7.9
60°-70°	355.1	5.5
70°-80°	191.4	3.0
80°-90°	56.3	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°	3433.2	53.0
0°-40°	4727.4	72.9
0°-60°	5880.0	90.7
0°-90°	6482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6482.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4935	
5°	4852	456
15°	4355	1229
25°	3854	1749
35°	2049	1294
45°	815	641
55°	575	512
65°	357	355
75°	179	191
85°	52	56
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4934.9
2.5°	4913.1
5°	4852.1
7.5°	4756.2
10°	4621.0
12.5°	4481.5
15°	4355.1
17.5°	4233.0
20°	4119.7
22.5°	4006.3
25°	3853.7
27.5°	3631.5
30°	3304.5
32.5°	2803.1
35°	2048.9
37.5°	1399.4
40°	1059.4
42.5°	906.8
45°	815.2
47.5°	741.1
50°	675.7
52.5°	619.0
55°	575.4
57.5°	523.2
60°	466.4
62.5°	409.8
65°	357.4
67.5°	305.2
70°	261.6
72.5°	218.0
75°	178.8
77.5°	143.8
80°	109.0
82.5°	78.4
85°	52.4
87.5°	21.8
90°	0.0



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— 0°-180°







(END OF REPORT)