

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: P585295

Luminaire Tested: **HC880D010-HM86080935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585295  
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: HC880D010-HM86080935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6561.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

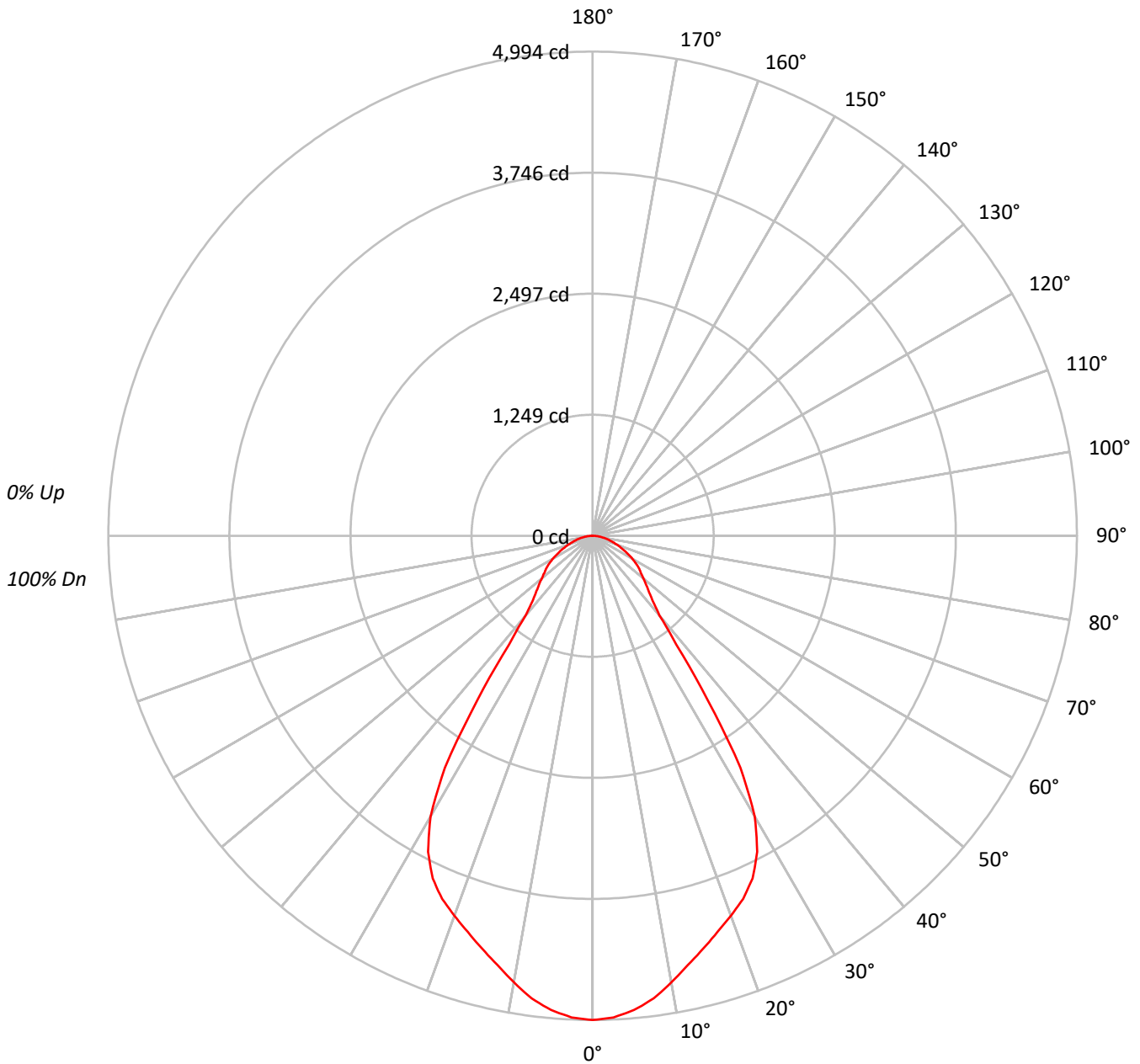
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	154009
5°	152003
10°	146440
15°	140709
20°	136817
25°	132704
30°	119080
35°	78059
40°	43156
45°	35978
50°	32809
55°	31311
60°	29109
65°	26399
70°	23865
75°	21541
80°	19587
85°	18716



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.4	7.0
10°-20°	1243.5	19.0
20°-30°	1769.7	27.0
30°-40°	1309.8	20.0
40°-50°	648.7	9.9
50°-60°	517.8	7.9
60°-70°	359.4	5.5
70°-80°	193.7	3.0
80°-90°	57.0	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°	3474.6	53.0
0°-40°	4784.4	72.9
0°-60°	5950.9	90.7
0°-90°	6561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6561.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4994	
5°	4911	461
15°	4408	1244
25°	3900	1770
35°	2074	1310
45°	825	649
55°	582	518
65°	362	359
75°	181	194
85°	53	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4994.4
2.5°	4972.4
5°	4910.6
7.5°	4813.5
10°	4676.8
12.5°	4535.6
15°	4407.6
17.5°	4284.1
20°	4169.3
22.5°	4054.6
25°	3900.3
27.5°	3675.2
30°	3344.3
32.5°	2837.0
35°	2073.6
37.5°	1416.2
40°	1072.1
42.5°	917.7
45°	825.0
47.5°	750.0
50°	683.9
52.5°	626.5
55°	582.4
57.5°	529.5
60°	472.0
62.5°	414.7
65°	361.8
67.5°	308.9
70°	264.7
72.5°	220.6
75°	180.8
77.5°	145.7
80°	110.3
82.5°	79.4
85°	52.9
87.5°	22.1
90°	0.0



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— 0°-180°







(END OF REPORT)