

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: P585291

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585291  
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: HC880D010-HM86080935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6534.6 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

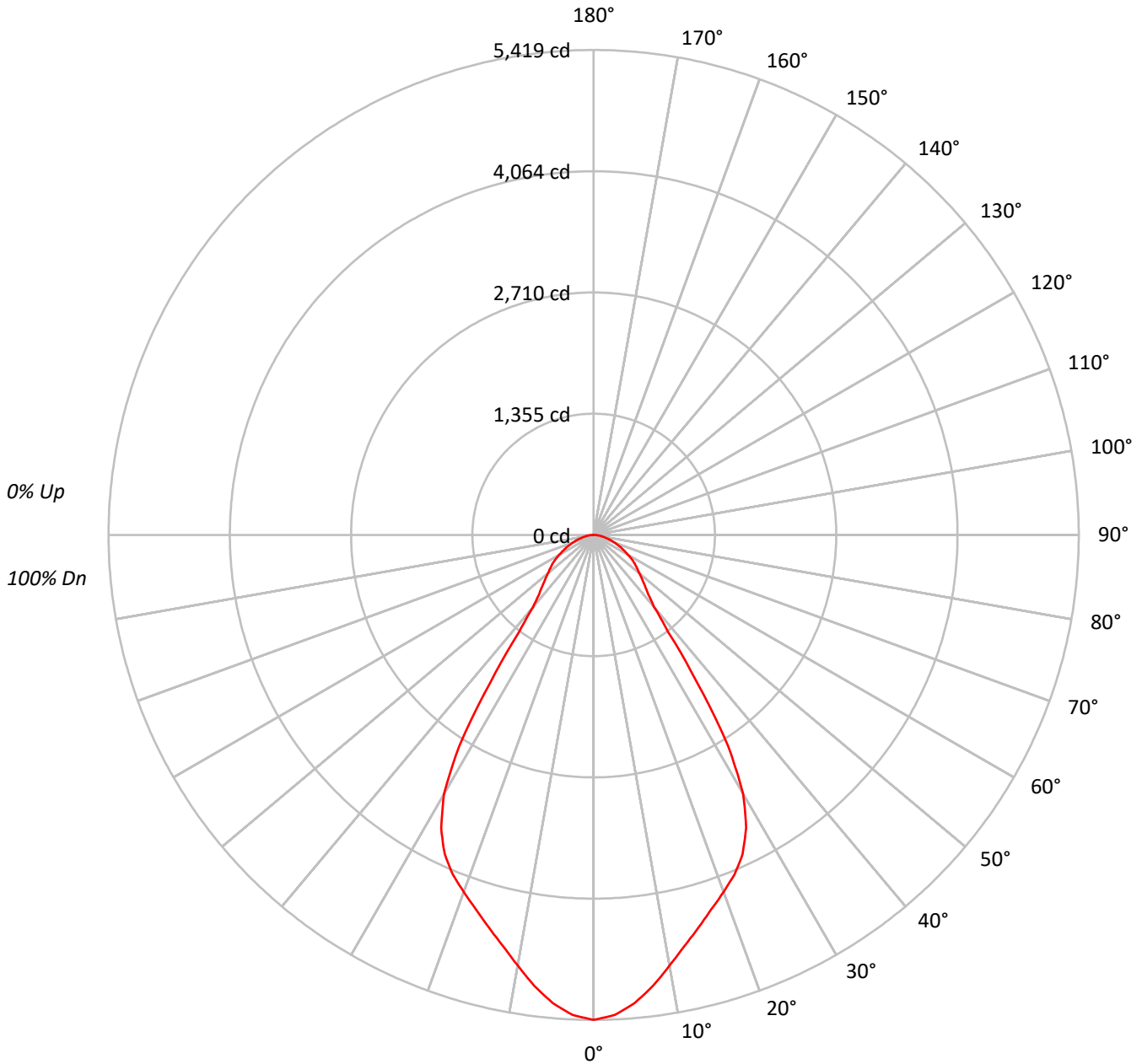
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	167090
5°	162540
10°	152953
15°	144814
20°	139294
25°	133922
30°	118941
35°	75744
40°	42275
45°	35411
50°	31964
55°	30128
60°	27481
65°	24793
70°	21882
75°	19444
80°	17225
85°	15603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.5	7.5
10°-20°	1279.3	19.6
20°-30°	1784.7	27.3
30°-40°	1284.2	19.7
40°-50°	636.4	9.7
50°-60°	497.9	7.6
60°-70°	337.1	5.2
70°-80°	175.0	2.7
80°-90°	50.4	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°	3553.5	54.4
0°-40°	4837.7	74.0
0°-60°	5972.1	91.4
0°-90°	6534.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5419	
5°	5251	490
15°	4536	1279
25°	3936	1785
35°	2012	1284
45°	812	636
55°	560	498
65°	340	337
75°	163	175
85°	44	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5418.6
2.5°	5370.1
5°	5251.0
7.5°	5083.3
10°	4884.8
12.5°	4699.4
15°	4536.2
17.5°	4381.7
20°	4244.8
22.5°	4108.1
25°	3936.1
27.5°	3688.9
30°	3340.4
32.5°	2793.2
35°	2012.1
37.5°	1372.3
40°	1050.2
42.5°	904.6
45°	812.0
47.5°	732.5
50°	666.3
52.5°	608.9
55°	560.4
57.5°	503.1
60°	445.6
62.5°	388.3
65°	339.8
67.5°	291.2
70°	242.7
72.5°	203.0
75°	163.2
77.5°	127.9
80°	97.0
82.5°	70.6
85°	44.1
87.5°	22.1
90°	0.0



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— 0°-180°







(END OF REPORT)