

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: P585224

Luminaire Tested: **HC880D010-HM86080835-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080835-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7384.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

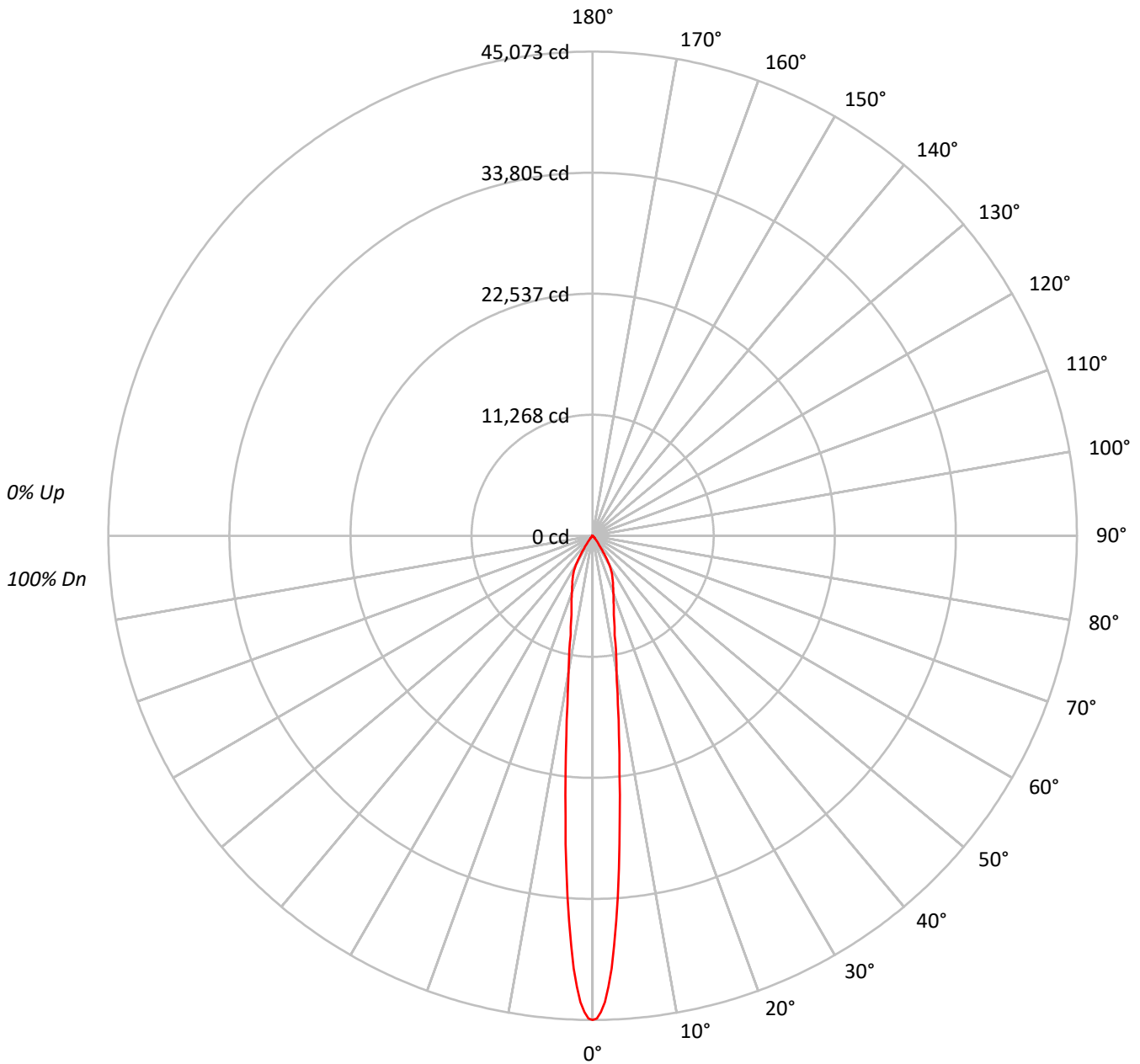
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585224

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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96																
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91																
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87																
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83																
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			80																
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			76																
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73																
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71																
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			68																
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			66																

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

	0°
0°	1389898
5°	891509
10°	402729
15°	242993
20°	185174
25°	149536
30°	109580
35°	39677
40°	14809
45°	6720
50°	2144
55°	538
60°	308
65°	365
70°	0
75°	0
80°	888
85°	1769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2196.6	29.7
10°-20°	2231.1	30.2
20°-30°	1997.3	27.0
30°-40°	804.5	10.9
40°-50°	131.9	1.8
50°-60°	12.0	0.2
60°-70°	4.3	0.1
70°-80°	3.3	0.0
80°-90°	4.8	0.1
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°	6425.0	87.0
0°-40°	7229.5	97.9
0°-60°	7373.4	99.8
0°-90°	7385.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7384.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	45073	
5°	28801	###
15°	7612	2231
25°	4395	1997
35°	1054	805
45°	154	132
55°	10	12
65°	5	4
75°	0	3
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	45073.4
0.5°	44934.2
1°	44352.6
1.5°	43417.9
2°	42000.9
2.5°	40325.4
3°	38227.4
3.5°	35925.5
4°	33648.5
4.5°	31097.9
5°	28801.0
5.5°	26300.3
6°	24271.9
6.5°	22158.9
7°	20498.4
7.5°	18743.3
8°	17331.3
8.5°	15914.4
9°	14850.5
9.5°	13677.2
10°	12861.8
12.5°	9486.0
15°	7611.6
17.5°	6503.0
20°	5642.9
22.5°	4956.8
25°	4395.0
27.5°	3833.2
30°	3077.5
32.5°	1978.7
35°	1054.0
37.5°	581.7
40°	367.9
42.5°	243.6
45°	154.1
47.5°	94.4
50°	44.7
52.5°	14.9
55°	10.0
57.5°	5.0
60°	5.0
62.5°	5.0
65°	5.0



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	5.0
80°	5.0
82.5°	5.0
85°	5.0
87.5°	5.0
90°	0.0



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— 0°-180°







67.5°		5.0
70°		0.0



(END OF REPORT)