

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: P593893

Luminaire Tested: **HC880D010-HM86080850-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080850-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7051.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

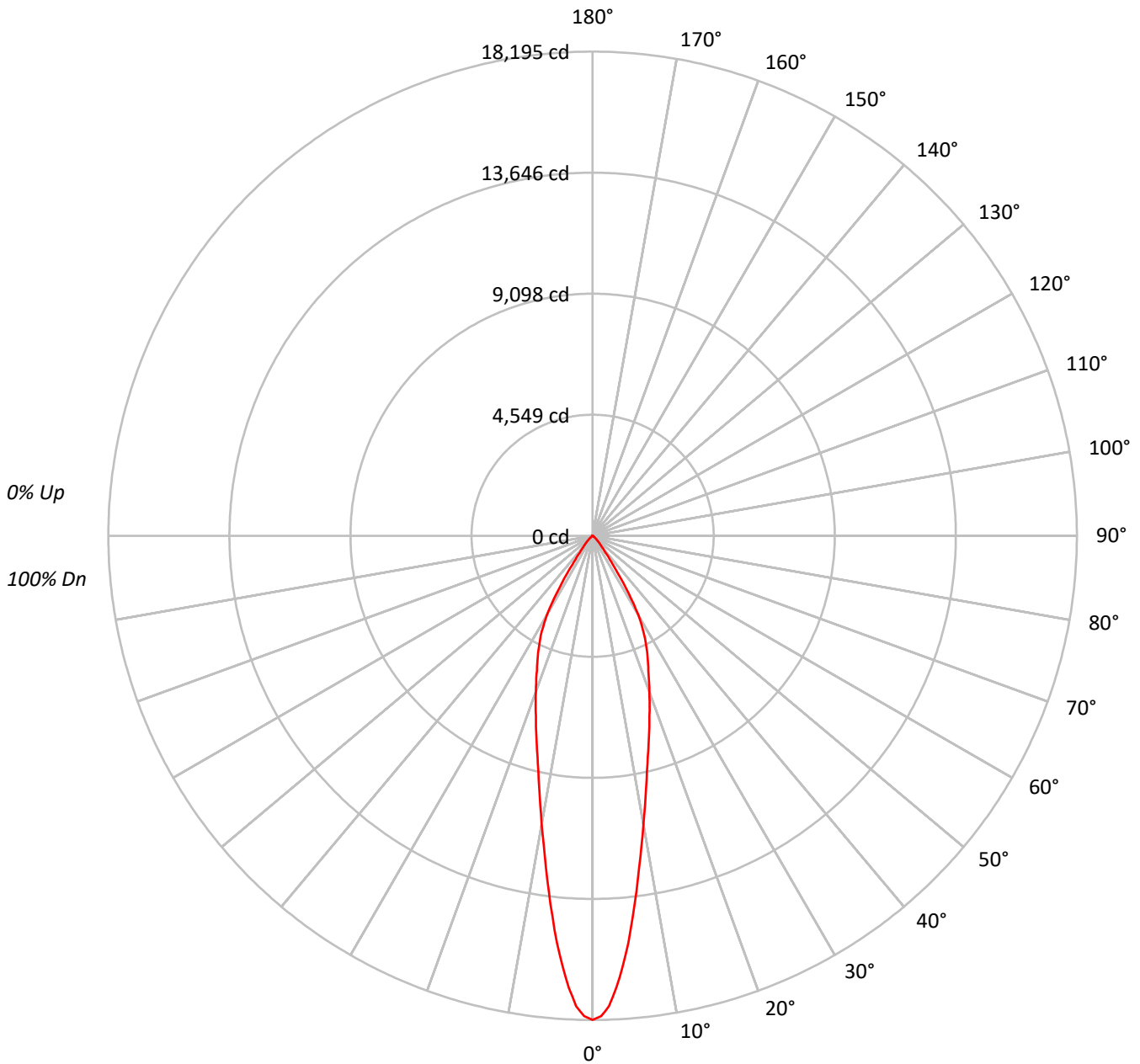
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	561057
5°	475334
10°	344880
15°	258994
20°	204351
25°	164833
30°	122149
35°	49487
40°	20872
45°	11190
50°	5028
55°	2532
60°	1616
65°	1146
70°	947
75°	620
80°	923
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.5	18.7
10°-20°	2278.6	32.3
20°-30°	2203.0	31.2
30°-40°	967.6	13.7
40°-50°	209.1	3.0
50°-60°	47.0	0.7
60°-70°	16.1	0.2
70°-80°	6.2	0.1
80°-90°	5.0	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°	5800.1	82.3
0°-40°	6767.7	96.0
0°-60°	7023.8	99.6
0°-90°	7051.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7051.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18195	
5°	15356	###
15°	8113	2279
25°	4845	2203
35°	1315	968
45°	257	209
55°	47	47
65°	16	16
75°	5	6
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18194.7
1°	18058.5
2°	17686.7
3°	17016.3
4°	16215.0
5°	15356.1
6°	14418.5
7°	13475.8
8°	12590.7
9°	11768.5
10°	11014.3
11°	10302.0
12°	9663.0
13°	9081.7
14°	8568.4
15°	8112.8
17.5°	7091.4
20°	6227.3
22.5°	5467.9
25°	4844.6
27.5°	4210.8
30°	3430.5
32.5°	2330.7
35°	1314.6
37.5°	775.1
40°	518.5
42.5°	366.6
45°	256.6
47.5°	167.6
50°	104.8
52.5°	62.9
55°	47.1
57.5°	36.6
60°	26.2
62.5°	20.9
65°	15.7
67.5°	10.5
70°	10.5
72.5°	5.2
75°	5.2
77.5°	5.2
80°	5.2
82.5°	5.2



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	5.2
87.5°	5.2



(END OF REPORT)