

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: P585208

Luminaire Tested: **HC880D010-HM86080830-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585208
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-HM86080830-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5598.2 lumens
Efficiency: N/A
Efficacy: 80.0 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

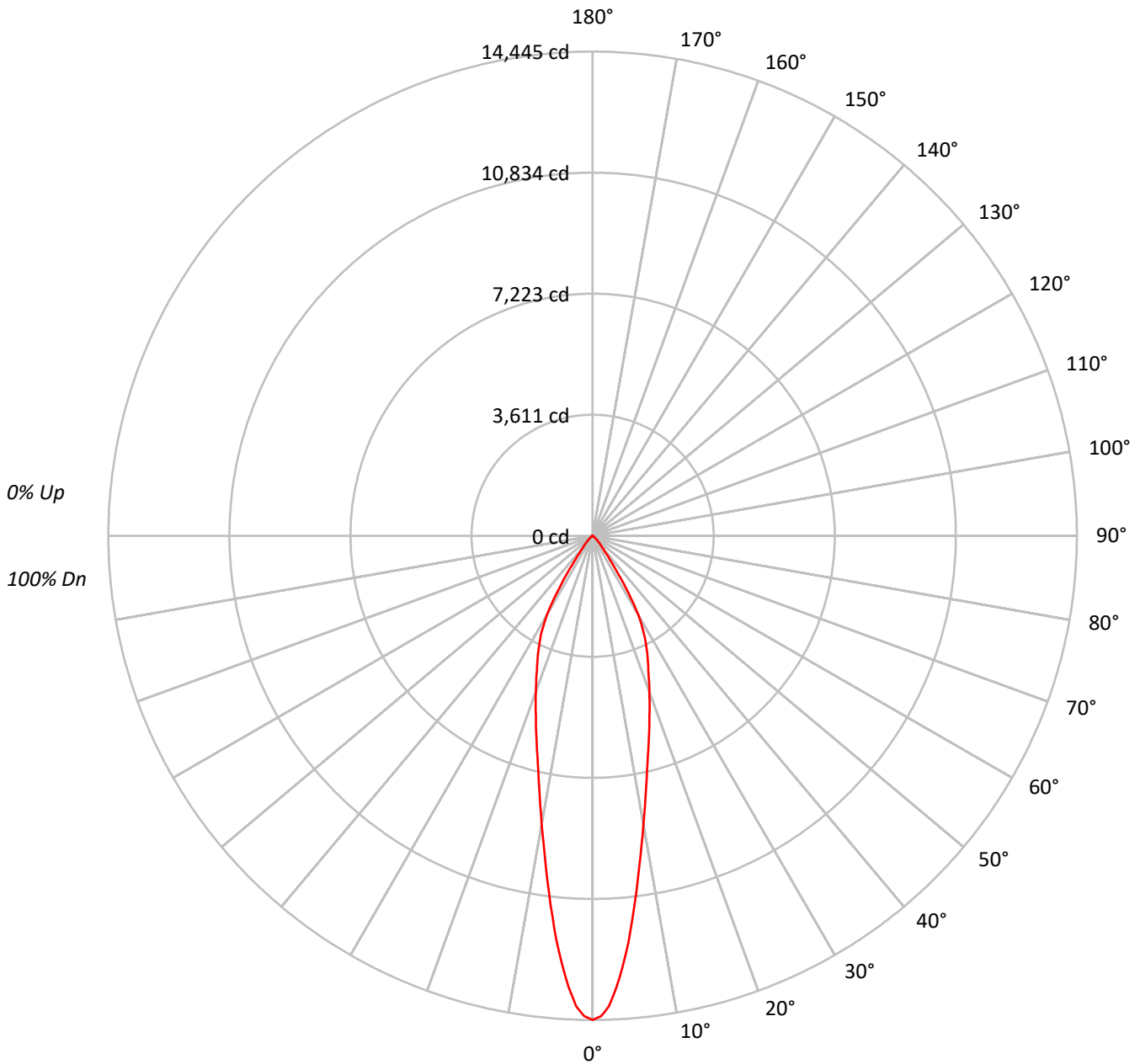
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	445443
5°	377380
10°	273811
15°	205620
20°	162239
25°	130867
30°	96978
35°	39289
40°	16569
45°	8888
50°	3987
55°	2016
60°	1283
65°	912
70°	748
75°	500
80°	746
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1046.8	18.7
10°-20°	1809.0	32.3
20°-30°	1749.1	31.2
30°-40°	768.2	13.7
40°-50°	166.0	3.0
50°-60°	37.3	0.7
60°-70°	12.8	0.2
70°-80°	5.0	0.1
80°-90°	4.0	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°	4604.9	82.3
0°-40°	5373.1	96.0
0°-60°	5576.4	99.6
0°-90°	5598.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14445	
5°	12192	###
15°	6441	1809
25°	3846	1749
35°	1044	768
45°	204	166
55°	38	37
65°	12	13
75°	4	5
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14445.4
1°	14337.3
2°	14042.1
3°	13509.8
4°	12873.7
5°	12191.6
6°	11447.3
7°	10698.9
8°	9996.2
9°	9343.4
10°	8744.6
11°	8179.1
12°	7671.8
13°	7210.2
14°	6802.7
15°	6440.9
17.5°	5630.2
20°	4944.0
22.5°	4341.2
25°	3846.3
27.5°	3343.1
30°	2723.6
32.5°	1850.3
35°	1043.7
37.5°	615.4
40°	411.6
42.5°	291.1
45°	203.8
47.5°	133.0
50°	83.1
52.5°	49.9
55°	37.5
57.5°	29.1
60°	20.8
62.5°	16.6
65°	12.5
67.5°	8.3
70°	8.3
72.5°	4.2
75°	4.2
77.5°	4.2
80°	4.2
82.5°	4.2



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	4.2
87.5°	4.2



(END OF REPORT)