

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: P583546

Luminaire Tested: **HC805D010-HM80520940-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583546
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: HC805D010-HM80520940-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 628.2 lumens
Efficiency: N/A
Efficacy: 104.7 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

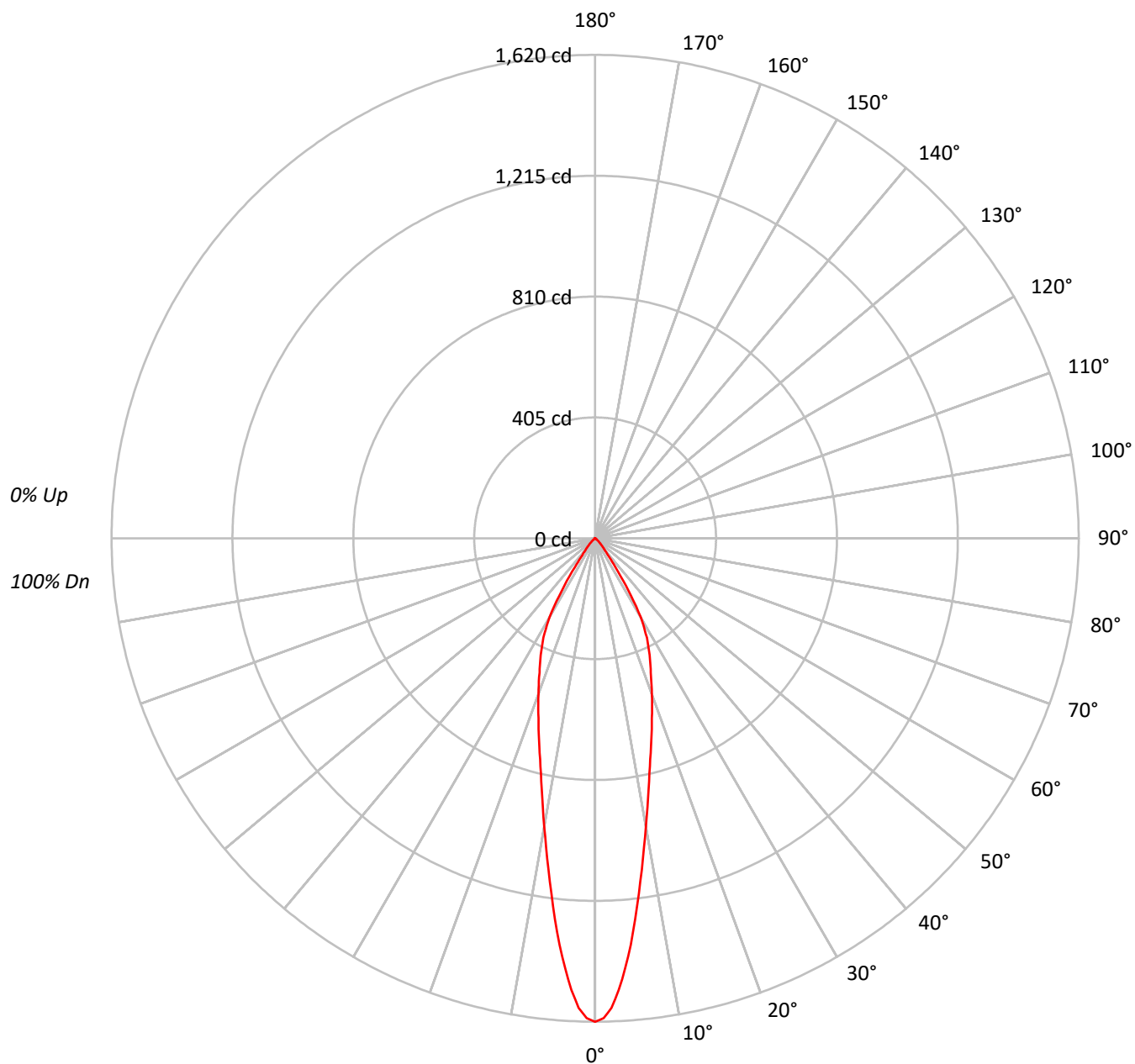
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	109	107	112	109	107	105		105	104	102			102	100	99			98
2	109	105	101	98	107	103	100	97		100	97	95			97	95	93			94
3	104	99	94	91	102	97	93	90		95	91	88			92	89	87			90
4	100	93	88	84	98	92	87	84		90	86	83			88	85	82			86
5	96	88	83	79	94	87	82	79		86	81	78			84	80	77			82
6	92	84	78	75	90	83	78	74		81	77	74			80	76	73			79
7	88	80	74	70	87	79	74	70		78	73	70			77	73	70			76
8	84	76	70	67	83	75	70	67		74	70	66			73	69	66			72
9	81	72	67	64	80	72	67	63		71	66	63			70	66	63			69
10	78	69	64	61	77	69	64	61		68	63	60			67	63	60			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49970
5°	42336
10°	30714
15°	23068
20°	18203
25°	14681
30°	10881
35°	4408
40°	1860
45°	999
50°	446
55°	226
60°	142
65°	102
70°	90
75°	60
80°	89
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	18.7
10°-20°	203.0	32.3
20°-30°	196.2	31.2
30°-40°	86.2	13.7
40°-50°	18.7	3.0
50°-60°	4.2	0.7
60°-70°	1.5	0.2
70°-80°	0.6	0.1
80°-90°	0.5	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°	516.6	82.2
0°-40°	602.8	96.0
0°-60°	625.6	99.6
0°-90°	628.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1620	
5°	1368	117
15°	723	203
25°	432	196
35°	117	86
45°	23	19
55°	4	4
65°	1	1
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1620.5
1°	1608.4
2°	1575.3
3°	1515.5
4°	1444.2
5°	1367.7
6°	1284.3
7°	1200.2
8°	1121.3
9°	1048.2
10°	980.9
11°	917.5
12°	860.6
13°	808.8
14°	763.2
15°	722.6
17.5°	631.7
20°	554.7
22.5°	487.1
25°	431.5
27.5°	375.0
30°	305.6
32.5°	207.6
35°	117.1
37.5°	69.1
40°	46.2
42.5°	32.7
45°	22.9
47.5°	15.0
50°	9.3
52.5°	5.6
55°	4.2
57.5°	3.2
60°	2.3
62.5°	1.9
65°	1.4
67.5°	1.0
70°	1.0
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.5
87.5°	0.5



(END OF REPORT)