

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: P585276

Luminaire Tested: **HC880D010-HM86080930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585276
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-HM86080930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5254.2 lumens
Efficiency: N/A
Efficacy: 75.1 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

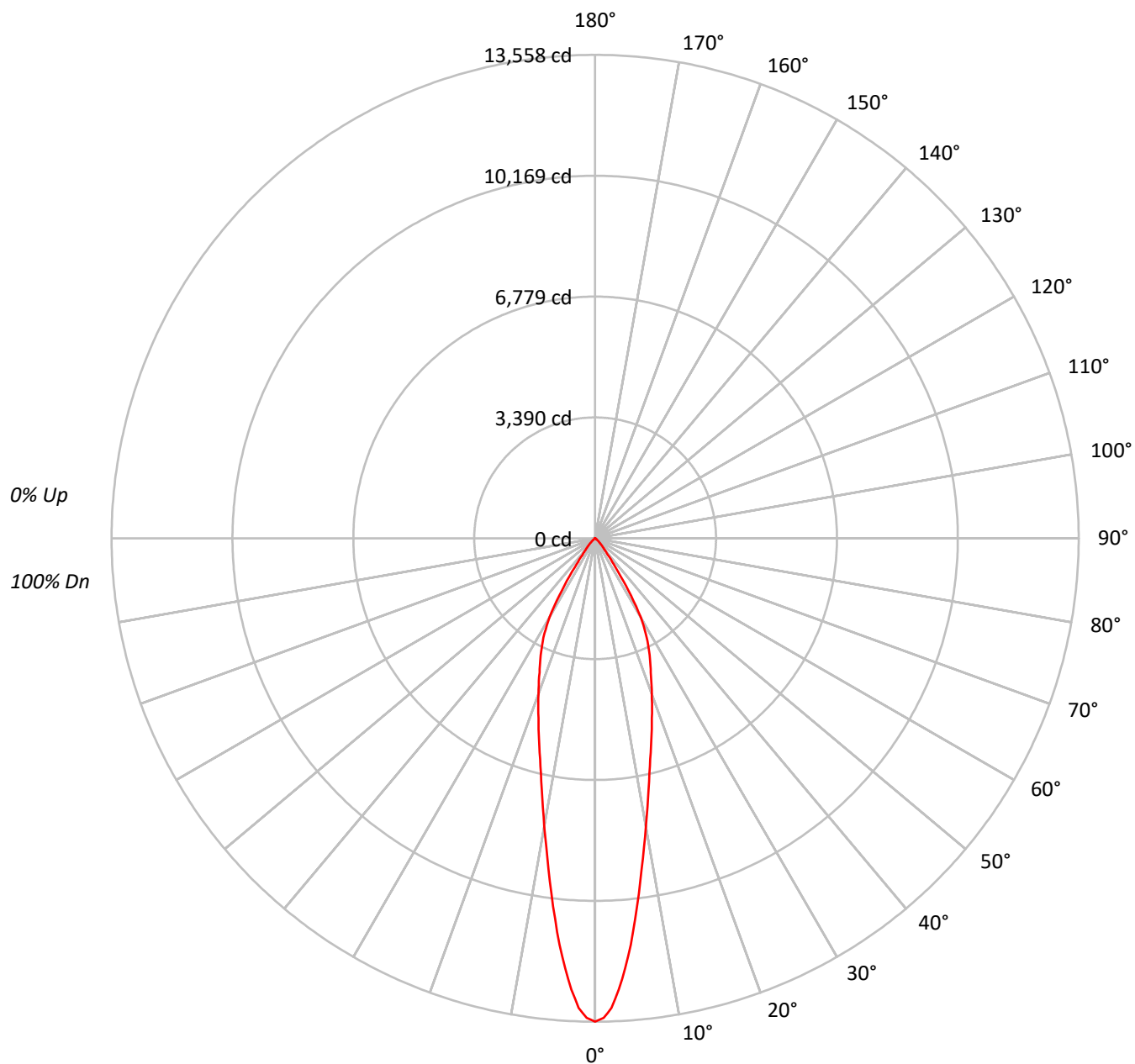
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106		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	90	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	71	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°	418076
5°	354199
10°	256990
15°	192988
20°	152273
25°	122827
30°	91018
35°	36876
40°	15554
45°	8338
50°	3742
55°	1887
60°	1203
65°	854
70°	703
75°	465
80°	693
85°	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.5	18.7
10°-20°	1697.9	32.3
20°-30°	1641.6	31.2
30°-40°	721.0	13.7
40°-50°	155.8	3.0
50°-60°	35.0	0.7
60°-70°	12.0	0.2
70°-80°	4.6	0.1
80°-90°	3.7	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°	4322.0	82.3
0°-40°	5043.0	96.0
0°-60°	5233.8	99.6
0°-90°	5254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5254.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13558	
5°	11443	982
15°	6045	1698
25°	3610	1642
35°	980	721
45°	191	156
55°	35	35
65°	12	12
75°	4	5
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13557.9
1°	13456.5
2°	13179.5
3°	12679.9
4°	12082.7
5°	11442.7
6°	10744.2
7°	10041.7
8°	9382.0
9°	8769.4
10°	8207.4
11°	7676.7
12°	7200.5
13°	6767.3
14°	6384.8
15°	6045.2
17.5°	5284.3
20°	4640.3
22.5°	4074.5
25°	3610.0
27.5°	3137.8
30°	2556.2
32.5°	1736.7
35°	979.6
37.5°	577.6
40°	386.4
42.5°	273.2
45°	191.2
47.5°	124.8
50°	78.0
52.5°	46.8
55°	35.1
57.5°	27.3
60°	19.5
62.5°	15.6
65°	11.7
67.5°	7.8
70°	7.8
72.5°	3.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	3.9



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.9
87.5°	3.9



(END OF REPORT)