

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: P585283

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080930-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6173.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

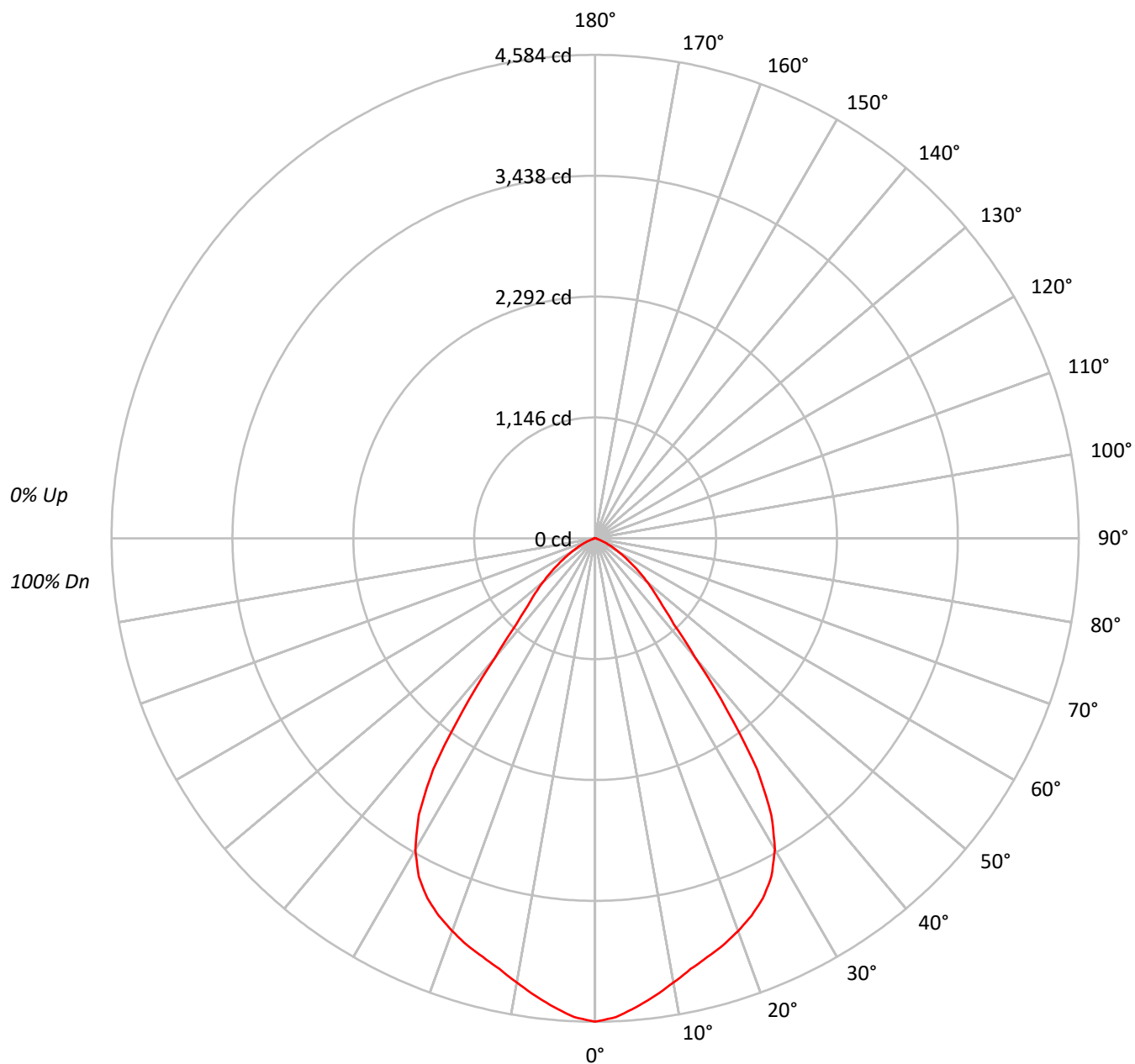
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	109	107	104		110	107	105	102		103	101	99		99	98	96		96	95	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	87	85
3	99	92	86	81		97	90	85	81		88	83	79		85	81	78		83	80	77
4	93	84	78	73		91	83	77	72		81	76	72		79	74	71		77	73	70
5	87	78	71	66		86	77	70	66		75	69	65		73	68	64		71	67	64
6	82	72	65	60		80	71	64	60		69	64	59		68	63	59		66	62	58
7	77	67	60	55		76	66	59	55		64	59	54		63	58	54		62	57	54
8	73	62	55	50		71	61	55	50		60	54	50		59	54	50		58	53	49
9	69	58	51	46		67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	47	43		64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	141344
5°	138161
10°	133925
15°	131218
20°	130037
25°	128091
30°	121337
35°	100811
40°	59367
45°	39266
50°	30909
55°	22741
60°	15794
65°	9631
70°	4201
75°	1859
80°	1367
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	6.8
10°-20°	1162.0	18.8
20°-30°	1721.6	27.9
30°-40°	1590.8	25.8
40°-50°	733.5	11.9
50°-60°	385.8	6.2
60°-70°	136.3	2.2
70°-80°	21.4	0.3
80°-90°	2.1	0.0
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°	3303.9	53.5
0°-40°	4894.8	79.3
0°-60°	6014.0	97.4
0°-90°	6173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6173.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4584	
5°	4463	420
15°	4110	1162
25°	3765	1722
35°	2678	1591
45°	900	733
55°	423	386
65°	132	136
75°	16	21
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4583.7
2.5°	4545.0
5°	4463.4
7.5°	4374.1
10°	4277.1
12.5°	4184.0
15°	4110.3
17.5°	4044.3
20°	3962.7
22.5°	3873.4
25°	3764.7
27.5°	3617.3
30°	3407.7
32.5°	3108.9
35°	2678.0
37.5°	2057.1
40°	1474.8
42.5°	1106.1
45°	900.4
47.5°	764.6
50°	644.3
52.5°	527.8
55°	423.0
57.5°	333.8
60°	256.1
62.5°	194.0
65°	132.0
67.5°	77.6
70°	46.6
72.5°	27.1
75°	15.6
77.5°	11.7
80°	7.7
82.5°	3.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)