

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: P581934

Luminaire Tested: **HC620D010-HM60525930-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525930-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

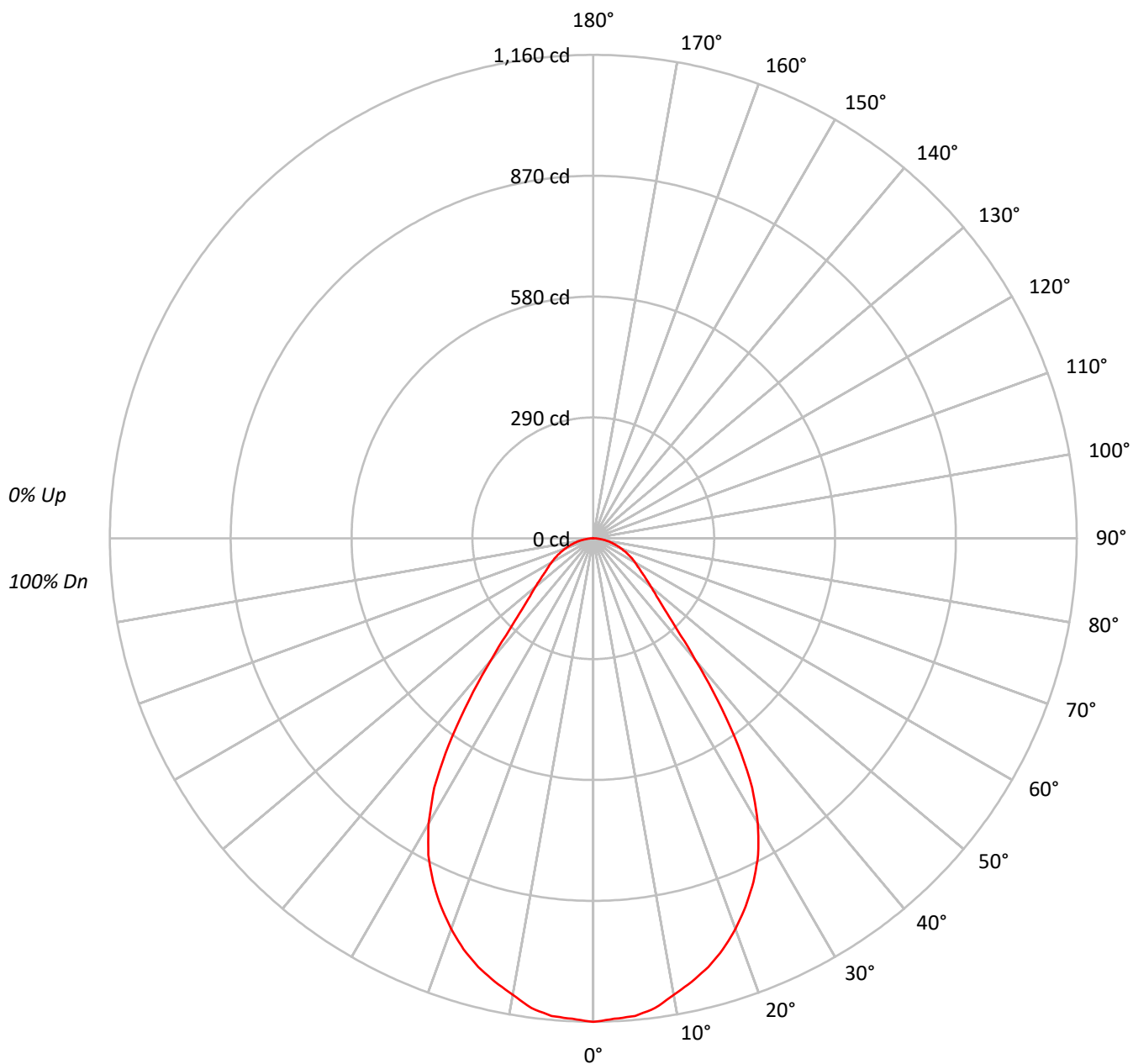
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	83		86	83	81
3	97	88	82	77		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	74	67	61		83	73	66	61		71	65	60		69	64	60		67	63	59
6	79	68	61	55		77	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	56	50		73	62	55	50		61	55	50		60	54	50		58	53	49
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		54	49	46
9	66	55	48	43		65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63613
5°	63317
10°	61917
15°	60466
20°	58193
25°	55031
30°	50008
35°	40482
40°	27301
45°	18762
50°	15377
55°	13448
60°	12718
65°	12012
70°	11284
75°	10718
80°	9723
85°	8554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	6.5
10°-20°	299.2	17.8
20°-30°	415.7	24.7
30°-40°	370.1	22.0
40°-50°	196.5	11.7
50°-60°	128.5	7.6
60°-70°	92.1	5.5
70°-80°	53.4	3.2
80°-90°	15.6	0.9
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°	823.5	49.0
0°-40°	1193.6	71.1
0°-60°	1518.5	90.4
0°-90°	1679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1160	
5°	1151	109
15°	1065	299
25°	910	416
35°	605	370
45°	242	196
55°	141	128
65°	93	92
75°	51	53
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1160.4
2.5°	1154.2
5°	1150.6
7.5°	1137.0
10°	1112.3
12.5°	1090.1
15°	1065.4
17.5°	1034.5
20°	997.5
22.5°	955.5
25°	909.8
27.5°	856.8
30°	790.0
32.5°	709.8
35°	604.9
37.5°	488.9
40°	381.5
42.5°	296.3
45°	242.0
47.5°	206.2
50°	180.3
52.5°	159.3
55°	140.7
57.5°	127.1
60°	116.0
62.5°	104.9
65°	92.6
67.5°	81.5
70°	70.4
72.5°	60.5
75°	50.6
77.5°	40.8
80°	30.8
82.5°	22.2
85°	13.6
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)