

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: P581938

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525930-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1628.9 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

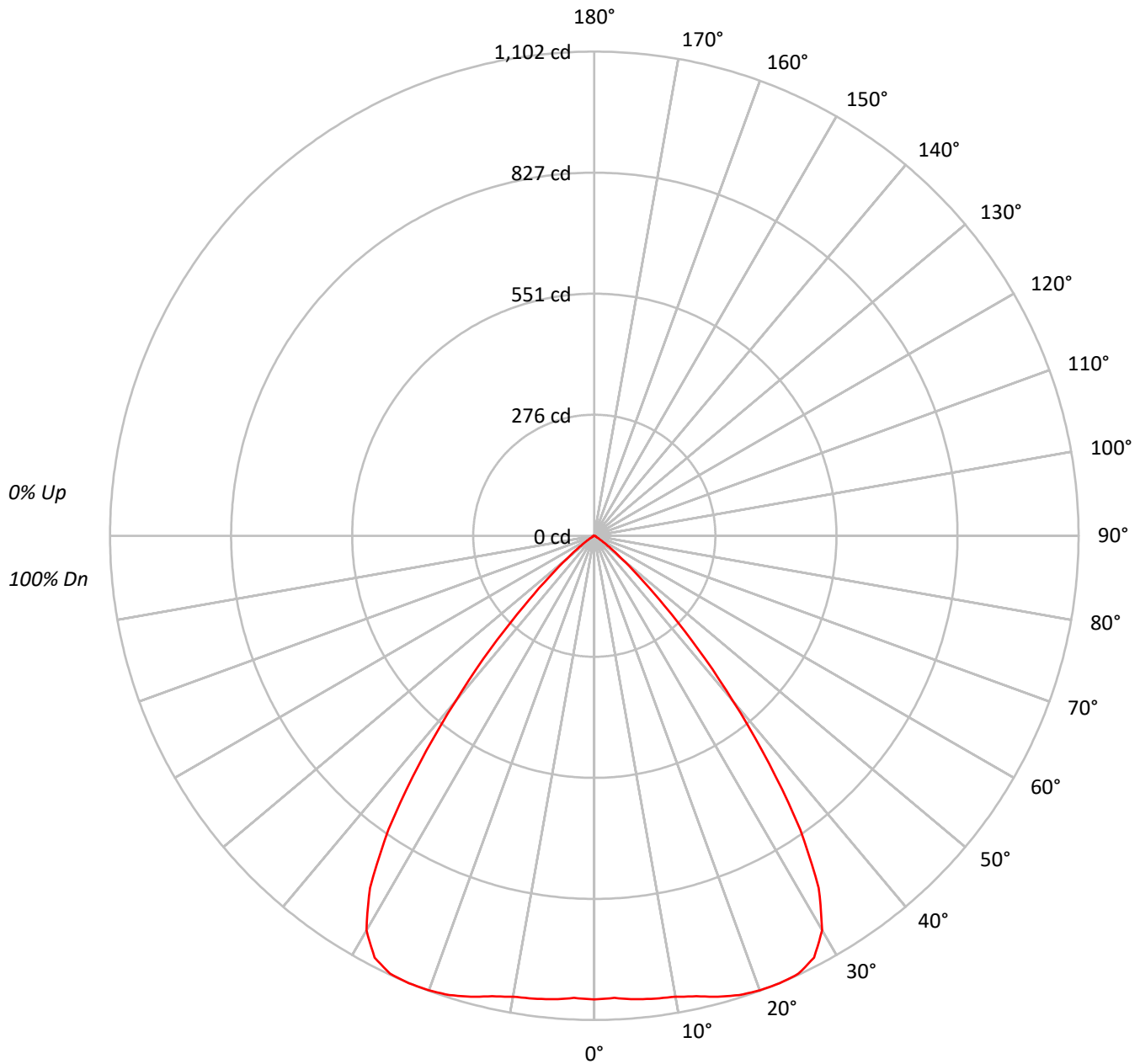
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		97
2	107	101	97	93	104	100	95	92	96	93	90		93	91	88		90
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84
4	95	86	80	75	93	85	79	75	83	78	74		81	77	73		79
5	89	80	73	68	87	79	73	68	77	72	67		75	70	67		73
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69
7	79	68	62	57	77	68	61	57	66	61	57		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	48	45		53	48	44		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57852
5°	58276
10°	59290
15°	61641
20°	64225
25°	66518
30°	65630
35°	54683
40°	35066
45°	17513
50°	6951
55°	2361
60°	669
65°	480
70°	401
75°	530
80°	379
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	6.2
10°-20°	308.1	18.9
20°-30°	503.0	30.9
30°-40°	493.1	30.3
40°-50°	189.1	11.6
50°-60°	27.7	1.7
60°-70°	4.1	0.3
70°-80°	2.1	0.1
80°-90°	0.5	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°	912.3	56.0
0°-40°	1405.4	86.3
0°-60°	1622.2	99.6
0°-90°	1628.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1055	
5°	1059	101
15°	1086	308
25°	1100	503
35°	817	493
45°	226	189
55°	25	28
65°	4	4
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1055.3
2.5°	1052.8
5°	1059.0
7.5°	1062.6
10°	1065.1
12.5°	1073.7
15°	1086.1
17.5°	1096.1
20°	1100.9
22.5°	1102.2
25°	1099.7
27.5°	1082.5
30°	1036.8
32.5°	950.4
35°	817.1
37.5°	652.9
40°	490.0
42.5°	349.3
45°	225.9
47.5°	138.2
50°	81.5
52.5°	46.9
55°	24.7
57.5°	11.1
60°	6.1
62.5°	5.0
65°	3.7
67.5°	3.7
70°	2.5
72.5°	2.5
75°	2.5
77.5°	1.2
80°	1.2
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)