

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: P582172

Luminaire Tested: **HC630D010-HM63040835-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582172
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: HC630D010-HM63040835-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.5 lumens
Efficiency: N/A
Efficacy: 107.4 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

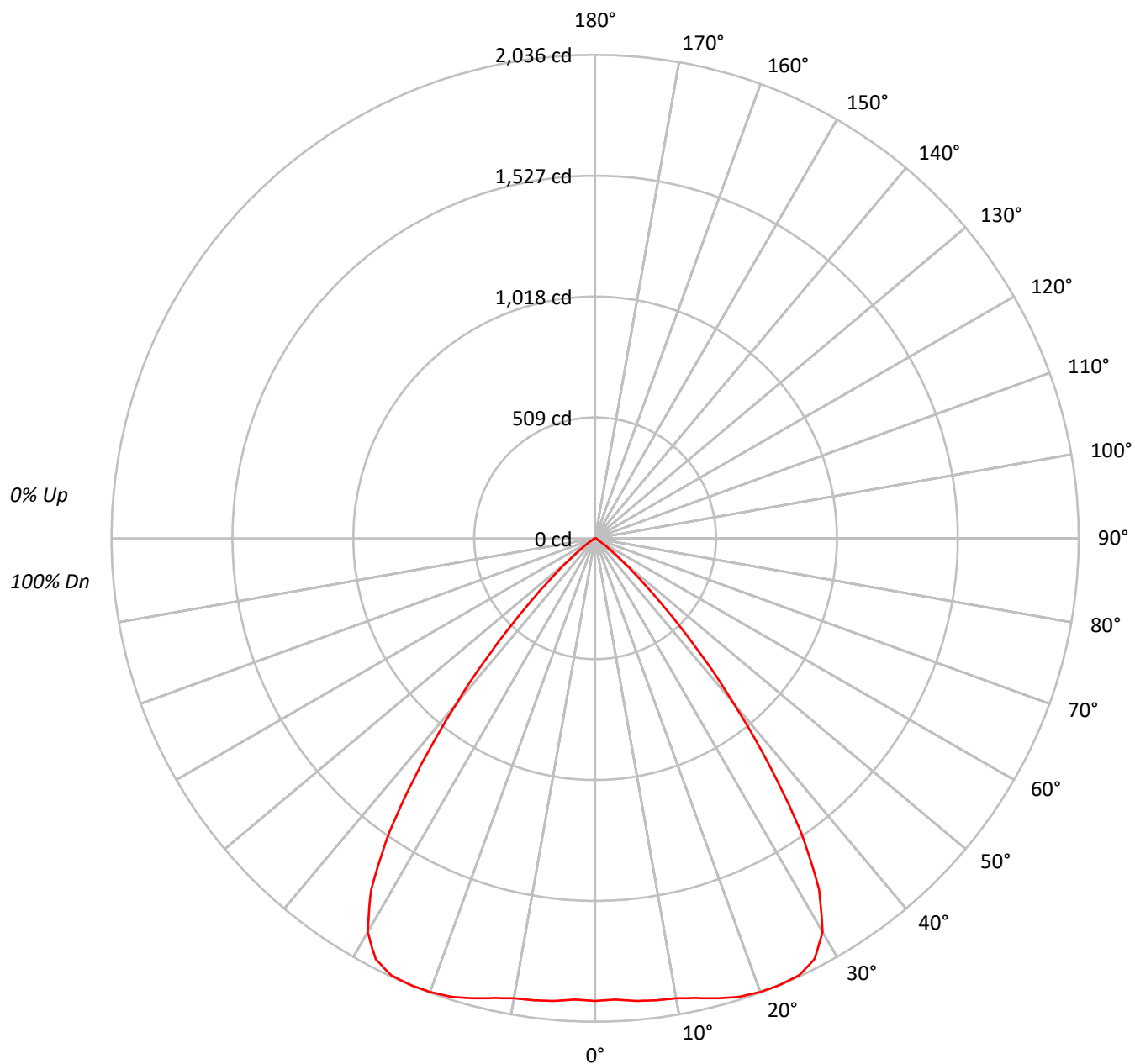
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106845
5°	107627
10°	109506
15°	113849
20°	118619
25°	122850
30°	121209
35°	100994
40°	64757
45°	32337
50°	12827
55°	4349
60°	1250
65°	895
70°	721
75°	953
80°	726
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	6.2
10°-20°	568.9	18.9
20°-30°	929.0	30.9
30°-40°	910.7	30.3
40°-50°	349.2	11.6
50°-60°	51.2	1.7
60°-70°	7.6	0.3
70°-80°	3.9	0.1
80°-90°	0.9	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°	1685.0	56.0
0°-40°	2595.6	86.3
0°-60°	2996.0	99.6
0°-90°	3008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1949	
5°	1956	187
15°	2006	569
25°	2031	929
35°	1509	911
45°	417	349
55°	46	51
65°	7	8
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1949.0
2.5°	1944.4
5°	1955.8
7.5°	1962.7
10°	1967.2
12.5°	1983.1
15°	2006.0
17.5°	2024.2
20°	2033.3
22.5°	2035.6
25°	2031.0
27.5°	1999.2
30°	1914.8
32.5°	1755.2
35°	1509.1
37.5°	1205.9
40°	904.9
42.5°	645.2
45°	417.1
47.5°	255.3
50°	150.4
52.5°	86.7
55°	45.5
57.5°	20.6
60°	11.4
62.5°	9.2
65°	6.9
67.5°	6.9
70°	4.5
72.5°	4.5
75°	4.5
77.5°	2.3
80°	2.3
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)