

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: P582151

Luminaire Tested: **HC630D010-HM63040830-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040830-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

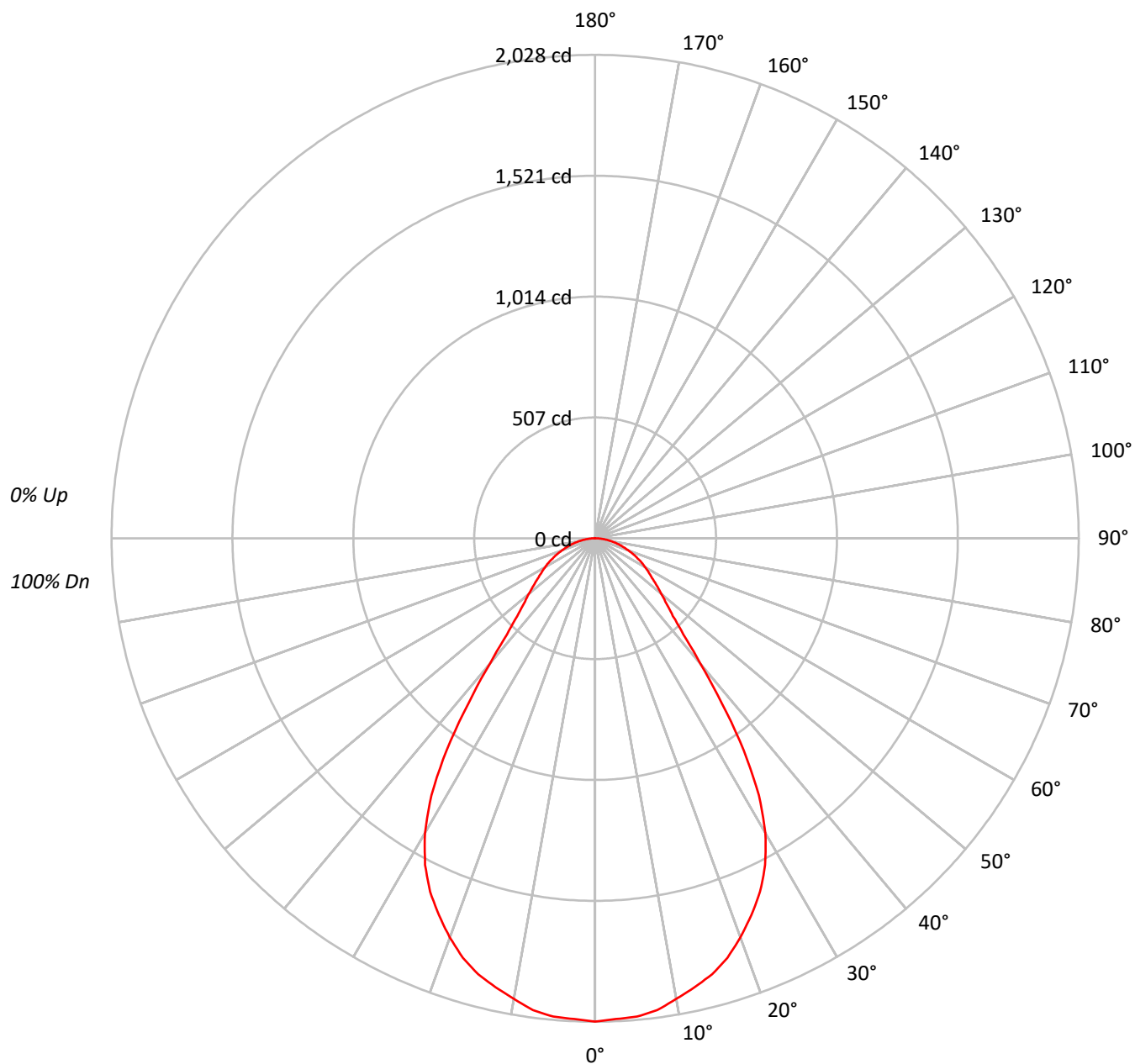
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	73	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	57	50	45	68	57	50	45	56	49	45		54	49	44		53
9	65	53	46	41	64	53	46	41	52	46	41		51	45	41		50
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111153
5°	110852
10°	109200
15°	107469
20°	103936
25°	98988
30°	90387
35°	72779
40°	49042
45°	35763
50°	30916
55°	27918
60°	26489
65°	25074
70°	23594
75°	22346
80°	20804
85°	19373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	6.1
10°-20°	531.8	17.1
20°-30°	747.1	24.0
30°-40°	665.1	21.4
40°-50°	371.6	12.0
50°-60°	264.8	8.5
60°-70°	192.6	6.2
70°-80°	111.5	3.6
80°-90°	34.7	1.1
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°	1469.5	47.3
0°-40°	2134.6	68.6
0°-60°	2771.0	89.1
0°-90°	3109.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2028	
5°	2014	191
15°	1894	532
25°	1636	747
35°	1088	665
45°	461	372
55°	292	265
65°	193	193
75°	106	112
85°	31	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2027.6
2.5°	2018.8
5°	2014.4
7.5°	1996.8
10°	1961.7
12.5°	1928.8
15°	1893.6
17.5°	1845.3
20°	1781.6
22.5°	1711.3
25°	1636.5
27.5°	1544.3
30°	1427.9
32.5°	1278.5
35°	1087.5
37.5°	872.1
40°	685.3
42.5°	546.9
45°	461.3
47.5°	404.3
50°	362.5
52.5°	325.1
55°	292.1
57.5°	265.9
60°	241.6
62.5°	219.7
65°	193.3
67.5°	171.3
70°	147.2
72.5°	125.2
75°	105.5
77.5°	85.7
80°	65.9
82.5°	48.3
85°	30.8
87.5°	15.3
90°	0.0



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— 0°-180°







(END OF REPORT)