

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: P593204

Luminaire Tested: **HC630D010-HM63040850-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040850-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

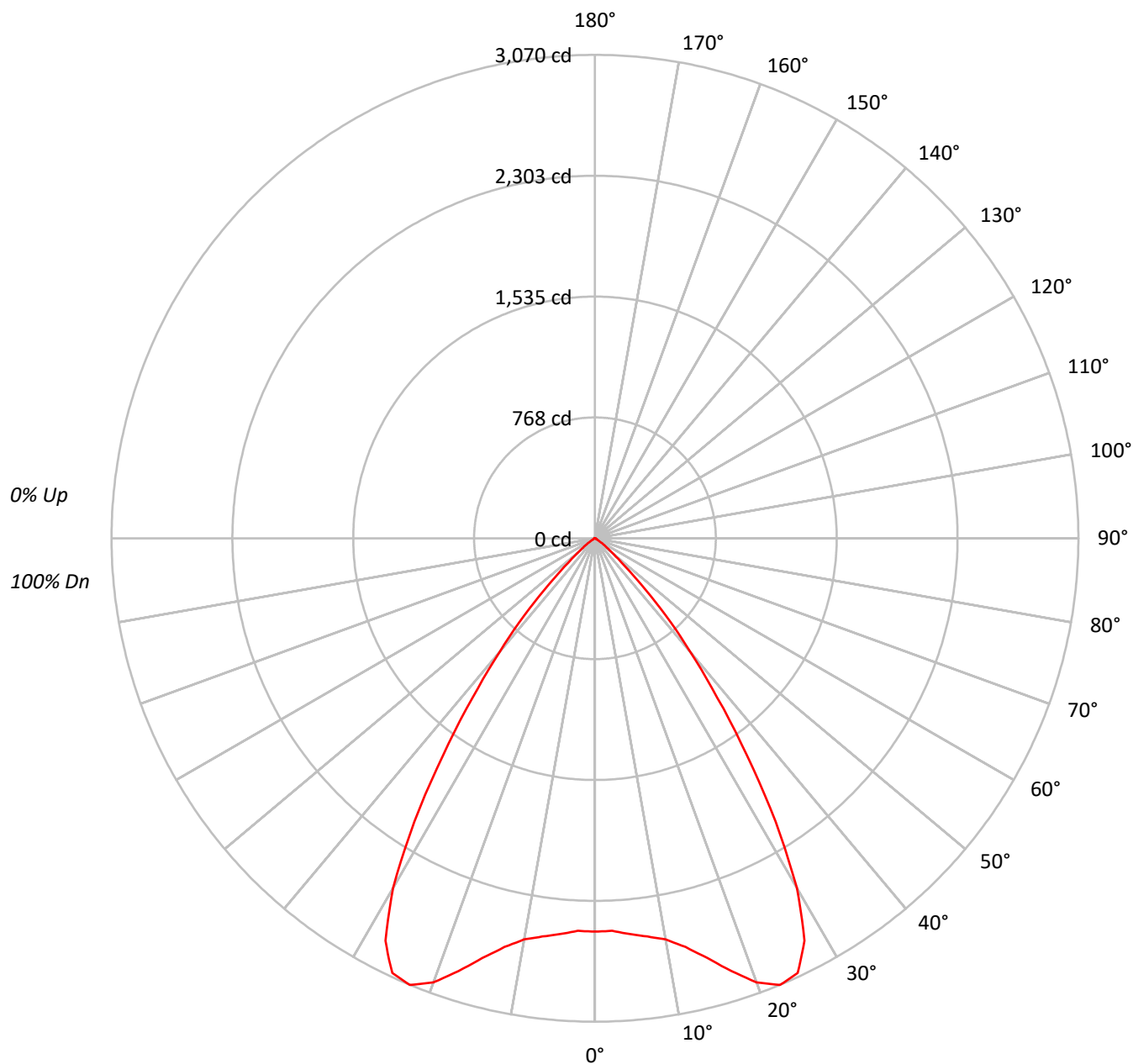
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105		111	108	106	103		104	102	100			100	99	97			97
2	107	102	97	94		105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85		99	93	88	84		90	86	82			88	84	81			85
4	95	87	81	77		93	86	80	76		84	79	75			82	78	74			80
5	90	81	75	70		88	80	74	70		78	73	69			76	72	68			75
6	85	75	69	64		83	74	68	64		73	67	63			71	67	63			70
7	80	70	63	59		79	69	63	59		68	62	58			67	62	58			66
8	76	65	59	54		74	65	59	54		64	58	54			62	57	54			61
9	71	61	55	50		70	60	54	50		60	54	50			59	53	50			58
10	68	57	51	47		67	57	51	47		56	50	46			55	50	46			54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136941
5°	138785
10°	143991
15°	156590
20°	175068
25°	184275
30°	162221
35°	112511
40°	67183
45°	31941
50°	12051
55°	5037
60°	1579
65°	1245
70°	769
75°	508
80°	758
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	6.3
10°-20°	792.3	20.5
20°-30°	1357.5	35.1
30°-40°	1054.3	27.3
40°-50°	348.6	9.0
50°-60°	53.5	1.4
60°-70°	9.4	0.2
70°-80°	3.5	0.1
80°-90°	1.0	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°	2392.5	61.9
0°-40°	3446.8	89.2
0°-60°	3848.8	99.6
0°-90°	3862.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2498	
5°	2522	243
15°	2759	792
25°	3046	1358
35°	1681	1054
45°	412	349
55°	53	53
65°	10	9
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2498.0
2.5°	2495.6
5°	2522.0
7.5°	2550.6
10°	2586.7
12.5°	2658.5
15°	2759.1
17.5°	2881.2
20°	3000.9
22.5°	3070.4
25°	3046.5
27.5°	2881.2
30°	2562.7
32.5°	2134.0
35°	1681.2
37.5°	1276.5
40°	938.8
42.5°	663.5
45°	412.0
47.5°	230.0
50°	141.3
52.5°	86.2
55°	52.7
57.5°	26.4
60°	14.4
62.5°	12.0
65°	9.6
67.5°	7.1
70°	4.8
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)