

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: P582283

Luminaire Tested: **HC635D010-HM63040827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3551.2 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

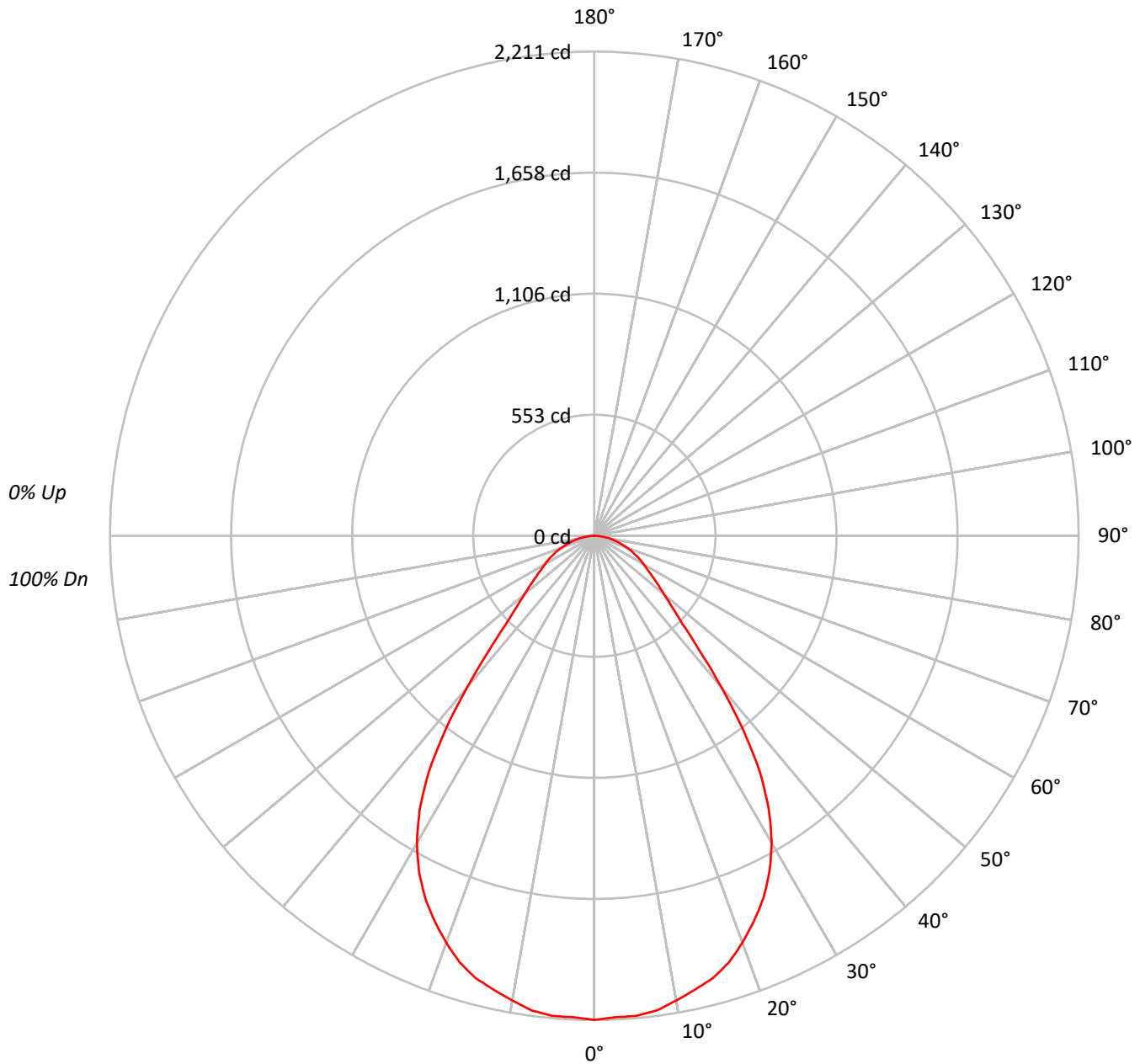
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	81	76	94	86	80	75		83	78	74			81	76	72			78
4	89	80	72	67	87	78	72	66		76	70	66			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	76	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	48			58	52	48			57
8	69	57	50	45	68	57	50	45		55	49	44			54	48	44			53
9	65	53	46	41	64	53	46	41		52	45	41			51	45	41			50
10	61	50	43	38	60	49	42	38		48	42	38			47	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121185
5°	121109
10°	119938
15°	118695
20°	115341
25°	110474
30°	102528
35°	88211
40°	64392
45°	44113
50°	35462
55°	30919
60°	28528
65°	27124
70°	25341
75°	23701
80°	21467
85°	18367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	5.9
10°-20°	587.4	16.5
20°-30°	835.4	23.5
30°-40°	804.3	22.6
40°-50°	462.7	13.0
50°-60°	293.2	8.3
60°-70°	207.6	5.8
70°-80°	118.3	3.3
80°-90°	33.7	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°	1631.4	45.9
0°-40°	2435.6	68.6
0°-60°	3191.6	89.9
0°-90°	3551.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2211	
5°	2201	209
15°	2091	587
25°	1826	835
35°	1318	804
45°	569	463
55°	324	293
65°	209	208
75°	112	118
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2210.6
2.5°	2200.8
5°	2200.8
7.5°	2186.3
10°	2154.6
12.5°	2123.0
15°	2091.4
17.5°	2042.8
20°	1977.1
22.5°	1904.2
25°	1826.4
27.5°	1731.5
30°	1619.7
32.5°	1483.5
35°	1318.1
37.5°	1116.2
40°	899.8
42.5°	710.1
45°	569.0
47.5°	479.1
50°	415.8
52.5°	364.8
55°	323.5
57.5°	287.0
60°	260.2
62.5°	235.9
65°	209.1
67.5°	184.9
70°	158.1
72.5°	133.7
75°	111.9
77.5°	90.0
80°	68.0
82.5°	48.7
85°	29.2
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)