

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: P582383

Luminaire Tested: **HC635D010-HM63040935-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

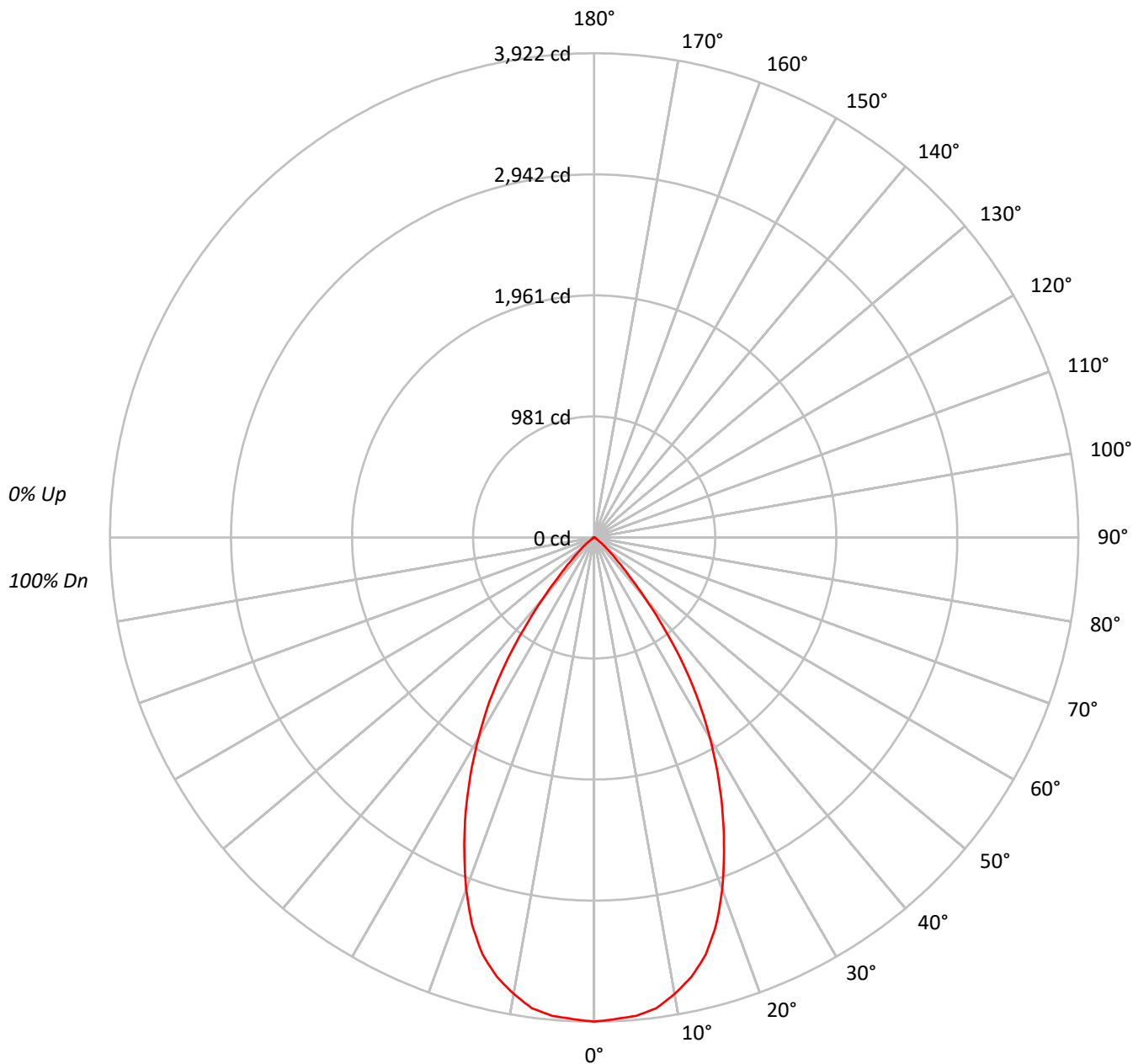
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	109	106	104		105	103	101			101	99	98			97
2	108	103	99	96	106	101	98	94		98	95	92			95	93	90			92
3	102	96	91	87	100	95	90	86		92	88	85			90	86	84			87
4	97	90	84	80	95	88	83	79		86	82	78			84	81	78			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	67	63		72	67	63			71	66	63			70
8	79	70	64	59	78	69	63	59		68	63	59			67	62	59			66
9	75	66	60	56	74	65	59	56		64	59	55			63	59	55			62
10	72	62	56	52	71	62	56	52		61	56	52			60	55	52			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	214988
5°	214082
10°	209014
15°	198412
20°	176847
25°	148968
30°	118689
35°	84678
40°	45528
45°	19506
50°	8870
55°	3230
60°	1590
65°	1258
70°	1154
75°	530
80°	789
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	10.5
10°-20°	969.0	27.6
20°-30°	1122.4	32.0
30°-40°	776.1	22.1
40°-50°	224.1	6.4
50°-60°	38.6	1.1
60°-70°	9.8	0.3
70°-80°	3.9	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°	2458.7	70.0
0°-40°	3234.7	92.1
0°-60°	3497.4	99.6
0°-90°	3512.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3922	
5°	3890	367
15°	3496	969
25°	2463	1122
35°	1265	776
45°	252	224
55°	34	39
65°	10	10
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3921.7
2.5°	3904.8
5°	3890.3
7.5°	3846.8
10°	3754.8
12.5°	3643.5
15°	3496.0
17.5°	3287.9
20°	3031.4
22.5°	2748.4
25°	2462.8
27.5°	2170.2
30°	1875.0
32.5°	1579.9
35°	1265.3
37.5°	938.7
40°	636.2
42.5°	401.6
45°	251.6
47.5°	162.1
50°	104.0
52.5°	62.9
55°	33.8
57.5°	19.4
60°	14.5
62.5°	12.1
65°	9.7
67.5°	7.2
70°	7.2
72.5°	4.8
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)