

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: P582384

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3292.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

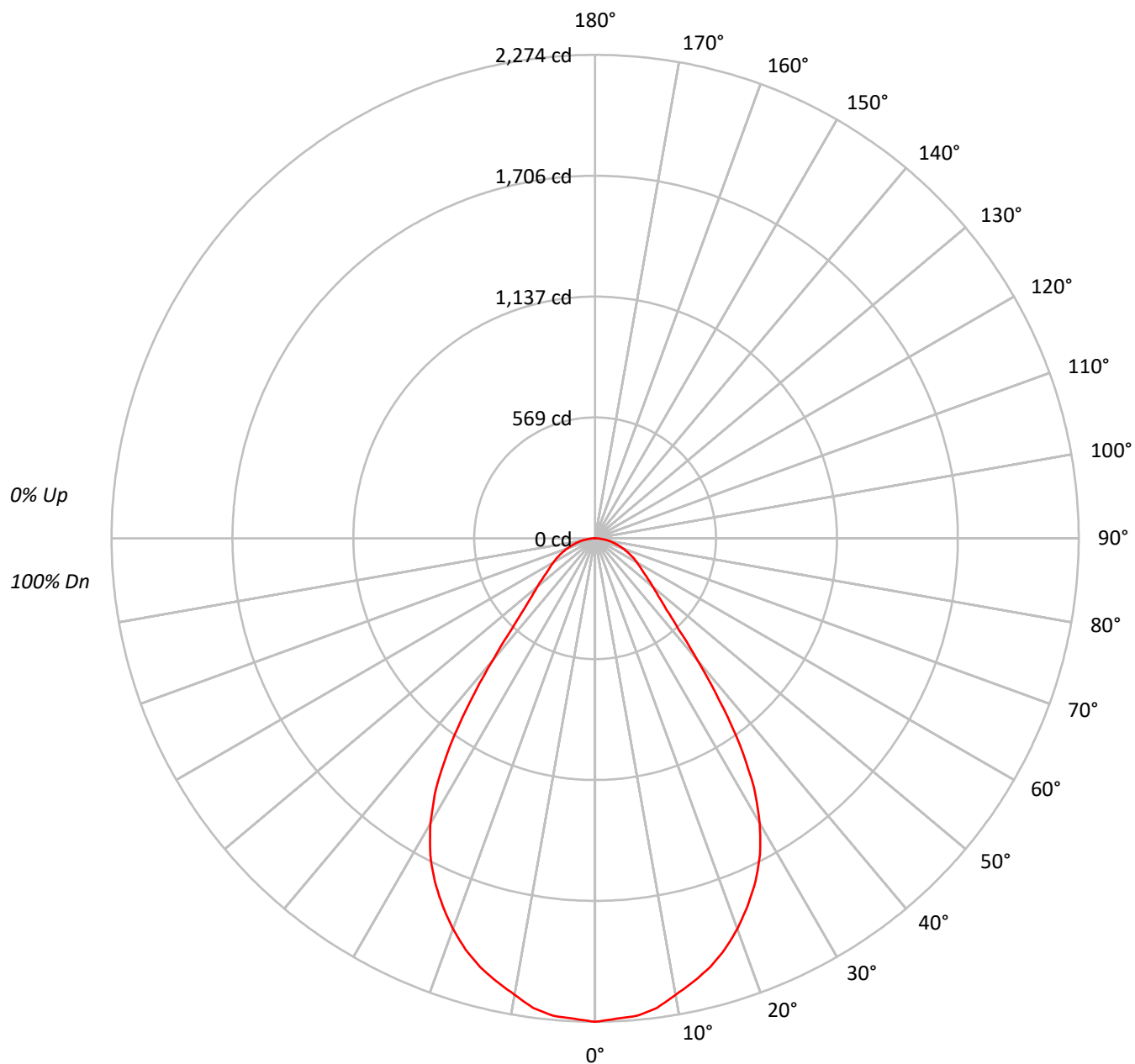
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	83		86	83	81
3	97	88	82	77		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	74	67	61		83	73	66	61		71	65	60		69	64	60		67	63	59
6	79	68	61	55		77	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	56	50		73	62	55	50		61	55	50		60	54	50		58	53	49
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		54	49	46
9	66	55	48	43		65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124688
5°	124097
10°	121357
15°	118508
20°	114057
25°	107867
30°	98028
35°	79351
40°	53507
45°	36771
50°	30131
55°	26369
60°	24932
65°	23543
70°	22103
75°	21011
80°	19100
85°	16731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	6.5
10°-20°	586.4	17.8
20°-30°	814.7	24.7
30°-40°	725.4	22.0
40°-50°	385.1	11.7
50°-60°	251.9	7.7
60°-70°	180.4	5.5
70°-80°	104.6	3.2
80°-90°	30.6	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°	1614.0	49.0
0°-40°	2339.4	71.1
0°-60°	2976.3	90.4
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2274	
5°	2255	213
15°	2088	586
25°	1783	815
35°	1186	725
45°	474	385
55°	276	252
65°	182	180
75°	99	105
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2274.5
2.5°	2262.3
5°	2255.1
7.5°	2228.5
10°	2180.1
12.5°	2136.5
15°	2088.1
17.5°	2027.7
20°	1955.1
22.5°	1872.8
25°	1783.3
27.5°	1679.2
30°	1548.6
32.5°	1391.3
35°	1185.7
37.5°	958.2
40°	747.7
42.5°	580.7
45°	474.3
47.5°	404.1
50°	353.3
52.5°	312.2
55°	275.9
57.5°	249.3
60°	227.4
62.5°	205.6
65°	181.5
67.5°	159.6
70°	137.9
72.5°	118.6
75°	99.2
77.5°	79.8
80°	60.5
82.5°	43.5
85°	26.6
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)