

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: P582281

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582281
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: HC635D010-HM63040827-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3923.4 lumens
Efficiency: N/A
Efficacy: 116.4 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

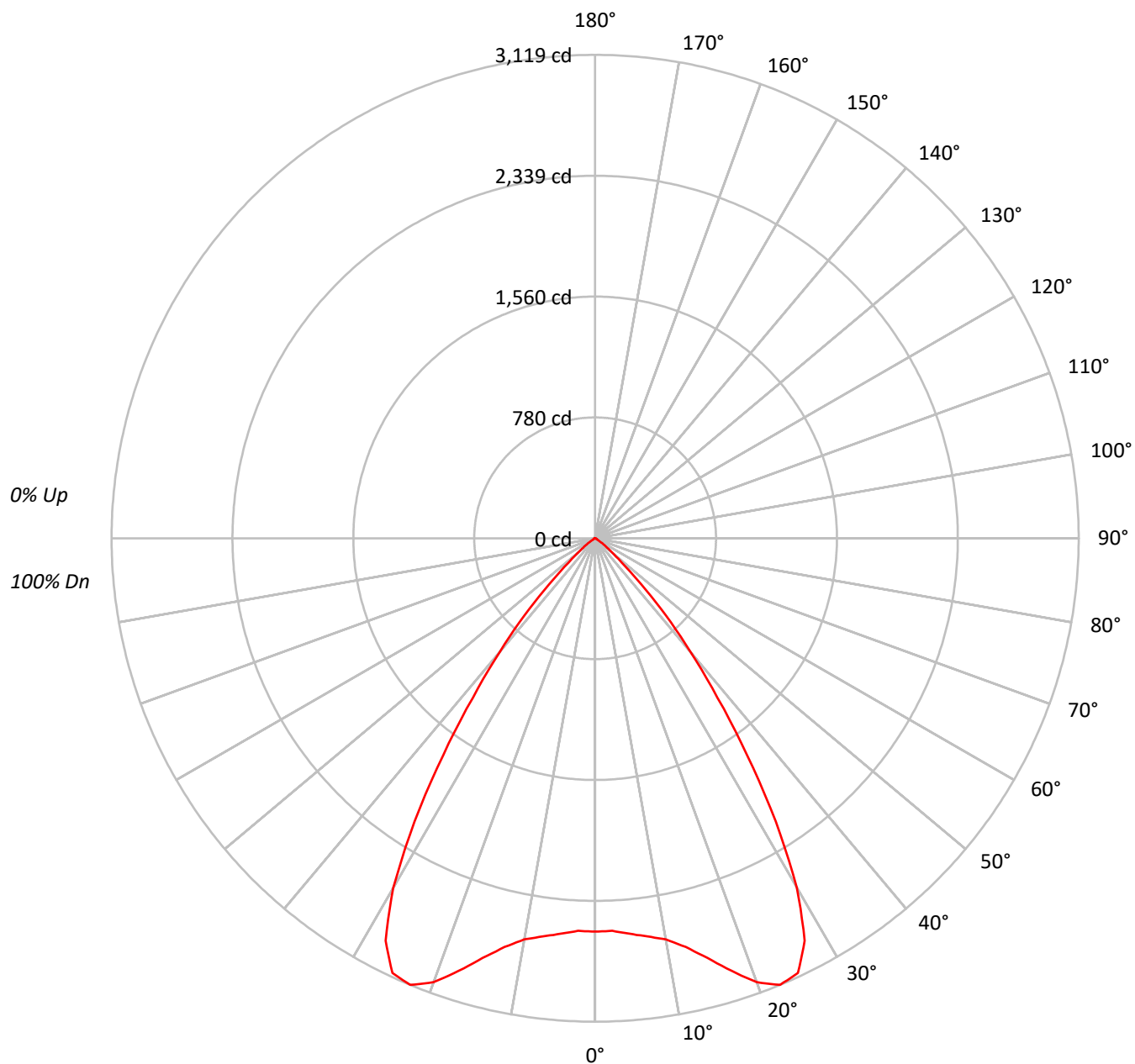
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	139090
5°	140964
10°	146251
15°	159047
20°	177821
25°	187166
30°	164766
35°	114285
40°	68242
45°	32437
50°	12238
55°	5123
60°	1601
65°	1258
70°	785
75°	530
80°	789
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	6.3
10°-20°	804.7	20.5
20°-30°	1378.9	35.1
30°-40°	1070.8	27.3
40°-50°	354.0	9.0
50°-60°	54.3	1.4
60°-70°	9.6	0.2
70°-80°	3.6	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°	2430.1	61.9
0°-40°	3500.9	89.2
0°-60°	3909.2	99.6
0°-90°	3923.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3923.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2537	
5°	2562	247
15°	2802	805
25°	3094	1379
35°	1708	1071
45°	418	354
55°	54	54
65°	10	10
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2537.2
2.5°	2534.8
5°	2561.6
7.5°	2590.7
10°	2627.3
12.5°	2700.2
15°	2802.4
17.5°	2926.5
20°	3048.1
22.5°	3118.6
25°	3094.3
27.5°	2926.5
30°	2602.9
32.5°	2167.5
35°	1707.7
37.5°	1296.5
40°	953.6
42.5°	673.8
45°	418.4
47.5°	233.5
50°	143.5
52.5°	87.5
55°	53.6
57.5°	26.7
60°	14.6
62.5°	12.1
65°	9.7
67.5°	7.4
70°	4.9
72.5°	4.9
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)