

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: P582695

Luminaire Tested: **HC645D010-HM64560940-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582695
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: HC645D010-HM64560940-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5102.6 lumens
Efficiency: N/A
Efficacy: 116.0 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

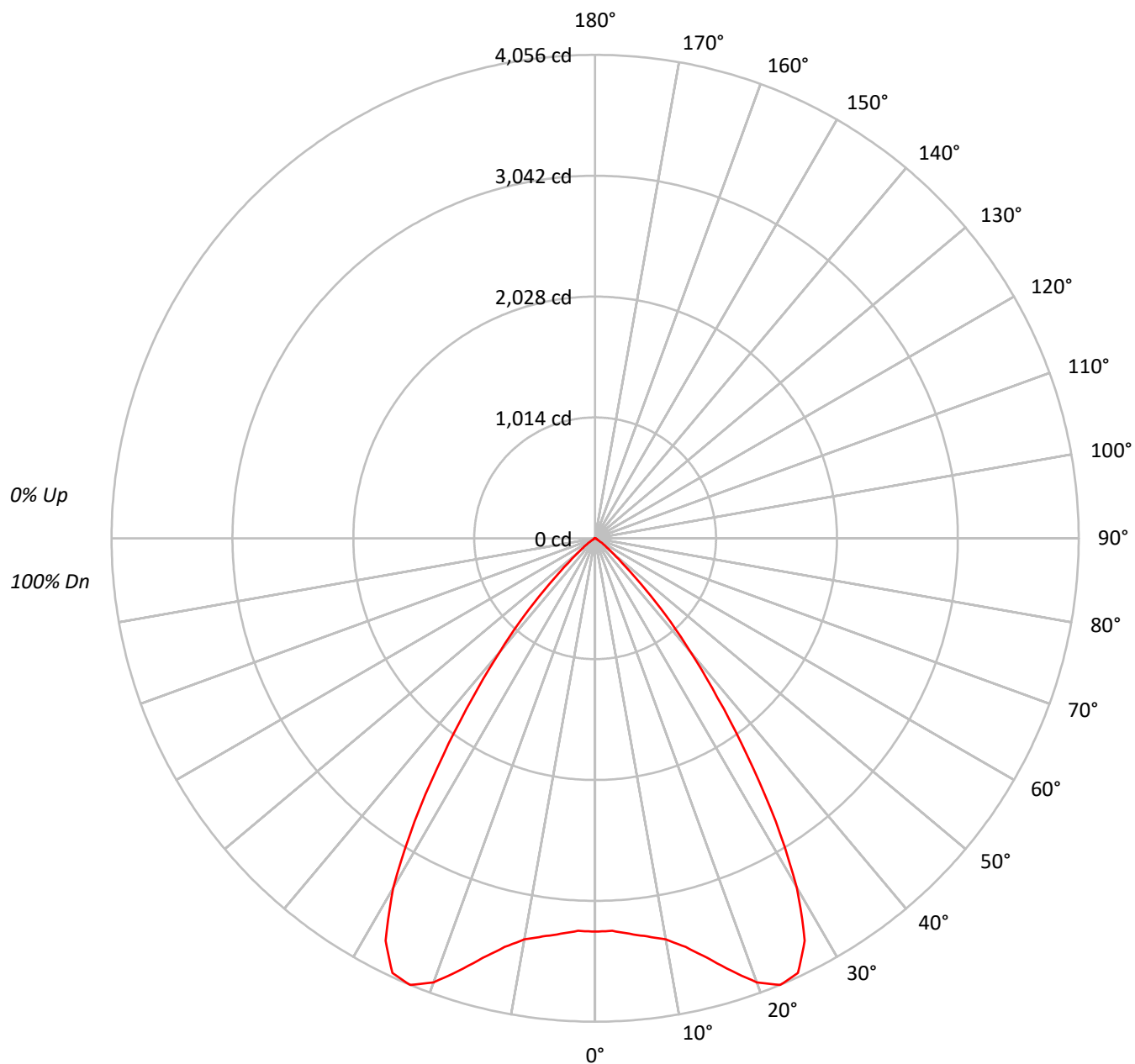
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105		111	108	106	103		104	102	100		100	99	97		97	96	94
2	107	102	97	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	82		88	84	81		85	82	80
4	95	87	81	77		93	86	80	76		84	79	75		82	78	74		80	76	74
5	90	81	75	70		88	80	74	70		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	63	59		79	69	63	59		68	62	58		67	62	58		66	61	58
8	76	65	59	54		74	65	59	54		64	58	54		62	57	54		61	57	53
9	71	61	55	50		70	60	54	50		60	54	50		59	53	50		58	53	50
10	68	57	51	47		67	57	51	47		56	50	46		55	50	46		54	50	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180896
5°	183326
10°	190199
15°	206846
20°	231265
25°	243419
30°	214292
35°	148636
40°	88752
45°	42190
50°	15914
55°	6652
60°	2083
65°	1647
70°	1010
75°	678
80°	1010
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	6.3
10°-20°	1046.5	20.5
20°-30°	1793.3	35.1
30°-40°	1392.7	27.3
40°-50°	460.4	9.0
50°-60°	70.6	1.4
60°-70°	12.5	0.2
70°-80°	4.6	0.1
80°-90°	1.3	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°	3160.5	61.9
0°-40°	4553.2	89.2
0°-60°	5084.2	99.6
0°-90°	5102.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5102.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3300	
5°	3331	321
15°	3645	1047
25°	4024	1793
35°	2221	1393
45°	544	460
55°	70	71
65°	13	12
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3299.8
2.5°	3296.6
5°	3331.4
7.5°	3369.4
10°	3416.8
12.5°	3511.7
15°	3644.6
17.5°	3806.0
20°	3964.2
22.5°	4056.0
25°	4024.3
27.5°	3806.0
30°	3385.3
32.5°	2819.0
35°	2221.0
37.5°	1686.3
40°	1240.2
42.5°	876.3
45°	544.2
47.5°	303.7
50°	186.6
52.5°	113.9
55°	69.6
57.5°	34.8
60°	19.0
62.5°	15.8
65°	12.7
67.5°	9.5
70°	6.3
72.5°	6.3
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)