

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: P593146

Luminaire Tested: **HC620D010-HM60525950-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525950-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945.5 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

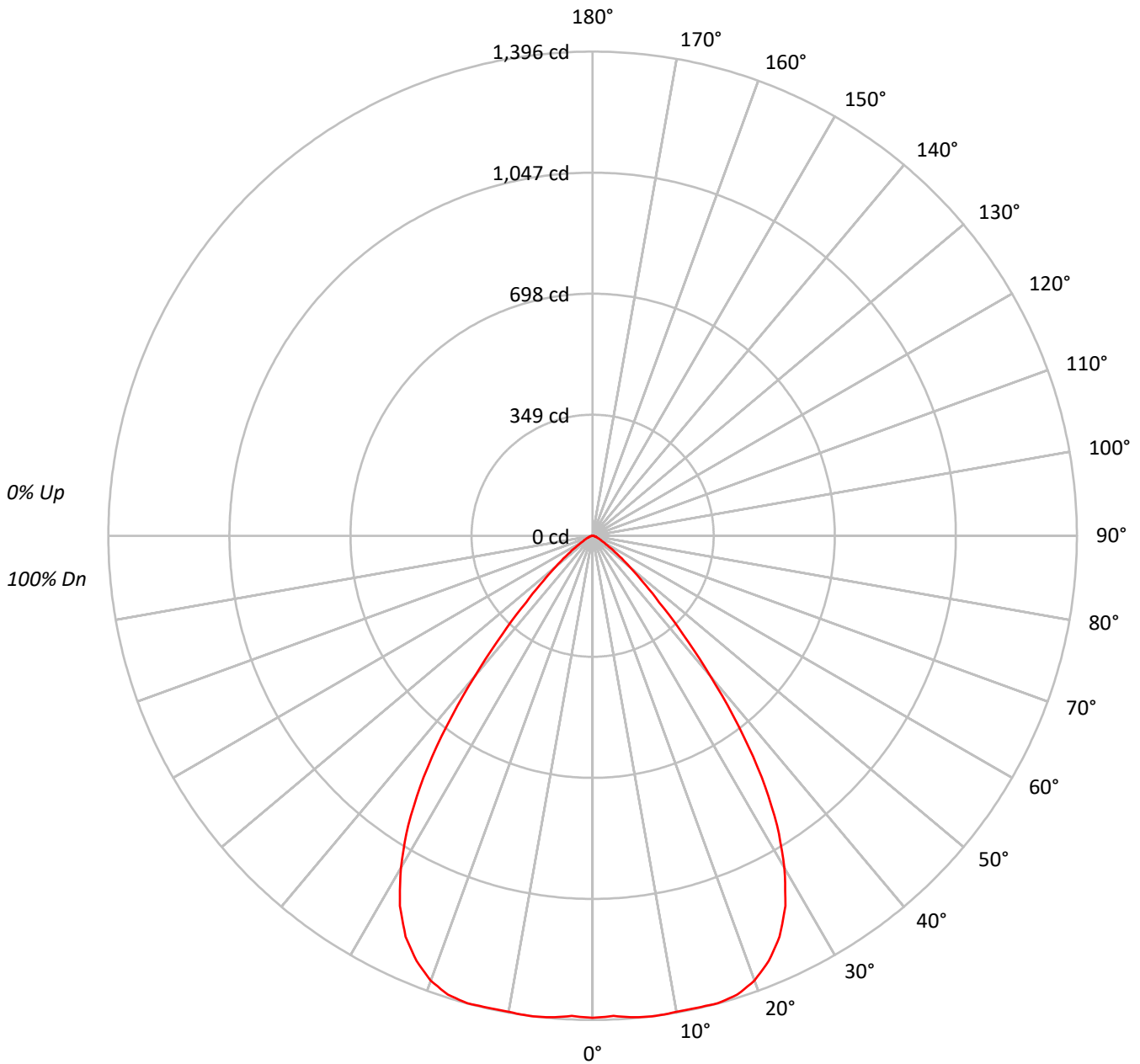
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593146

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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76195
5°	76700
10°	77587
15°	79183
20°	79620
25°	77140
30°	69985
35°	56898
40°	37771
45°	21018
50°	11786
55°	6537
60°	3607
65°	2737
70°	1907
75°	1398
80°	821
85°	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	6.8
10°-20°	393.4	20.2
20°-30°	579.8	29.8
30°-40°	518.6	26.7
40°-50°	225.0	11.6
50°-60°	66.1	3.4
60°-70°	21.1	1.1
70°-80°	7.4	0.4
80°-90°	1.1	0.1
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°	1106.2	56.9
0°-40°	1624.8	83.5
0°-60°	1915.9	98.5
0°-90°	1945.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1390	
5°	1394	133
15°	1395	393
25°	1275	580
35°	850	519
45°	271	225
55°	68	66
65°	21	21
75°	7	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1389.9
2.5°	1385.9
5°	1393.8
7.5°	1396.4
10°	1393.8
12.5°	1393.8
15°	1395.2
17.5°	1387.2
20°	1364.8
22.5°	1326.6
25°	1275.3
27.5°	1202.9
30°	1105.6
32.5°	989.8
35°	850.2
37.5°	691.0
40°	527.8
42.5°	385.7
45°	271.1
47.5°	193.5
50°	138.2
52.5°	98.7
55°	68.4
57.5°	46.1
60°	32.9
62.5°	26.3
65°	21.1
67.5°	15.7
70°	11.9
72.5°	9.2
75°	6.6
77.5°	5.2
80°	2.6
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)