

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: P593126

Luminaire Tested: **HC620D010-HM60525850-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525850-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2139.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

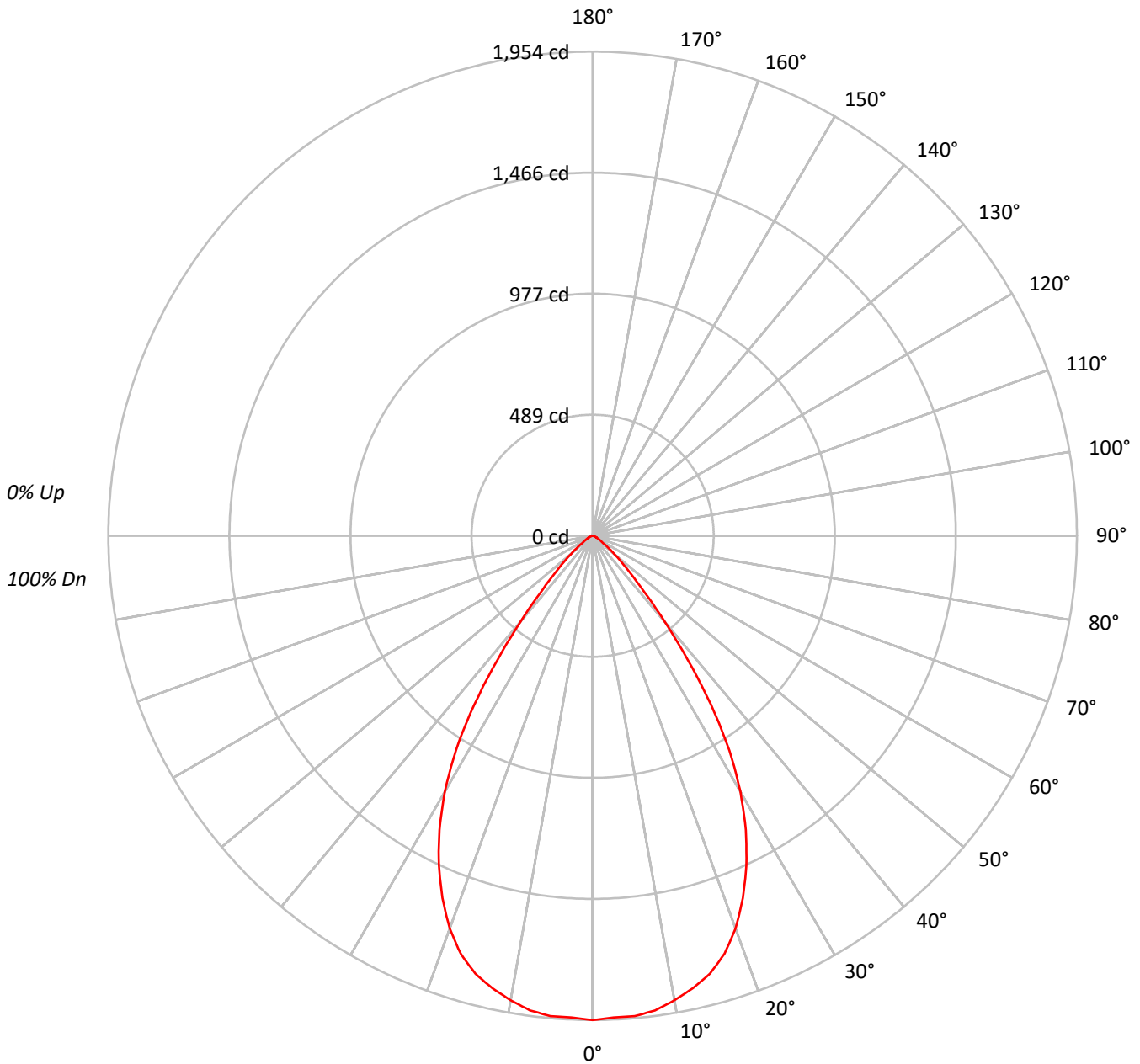
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593126

CATALOG NUMBER: HC620D010-HM60525850-61MDH

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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107146
5°	107060
10°	105943
15°	103814
20°	98341
25°	88801
30°	75442
35°	55700
40°	32210
45°	17095
50°	9663
55°	5056
60°	3322
65°	2348
70°	1683
75°	1271
80°	979
85°	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	8.6
10°-20°	511.6	23.9
20°-30°	667.8	31.2
30°-40°	510.3	23.9
40°-50°	184.7	8.6
50°-60°	53.7	2.5
60°-70°	19.2	0.9
70°-80°	6.6	0.3
80°-90°	1.2	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°	1363.7	63.7
0°-40°	1874.0	87.6
0°-60°	2112.4	98.7
0°-90°	2139.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1954	
5°	1946	184
15°	1829	512
25°	1468	668
35°	832	510
45°	220	185
55°	53	54
65°	18	19
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1954.5
2.5°	1945.5
5°	1945.5
7.5°	1931.9
10°	1903.2
12.5°	1870.0
15°	1829.2
17.5°	1768.7
20°	1685.7
22.5°	1583.0
25°	1468.1
27.5°	1338.3
30°	1191.8
32.5°	1027.1
35°	832.3
37.5°	628.4
40°	450.1
42.5°	311.1
45°	220.5
47.5°	158.6
50°	113.3
52.5°	80.1
55°	52.9
57.5°	37.7
60°	30.3
62.5°	24.1
65°	18.1
67.5°	15.1
70°	10.5
72.5°	7.6
75°	6.0
77.5°	4.5
80°	3.1
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)