Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P582534

Luminaire Tested: **HC640D010-HM63040935-61WDH**

Issue Date: 9/16/2021

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Scaled Data Report

Test Information

Test Method:	LM-41-14
Report Number:	P582534
	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:	HC640D010-HM63040935-61WDH
Description:	HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source:	(1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4154.2 lumens
Efficiency:	N/A
Efficacy:	101.3 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):	41
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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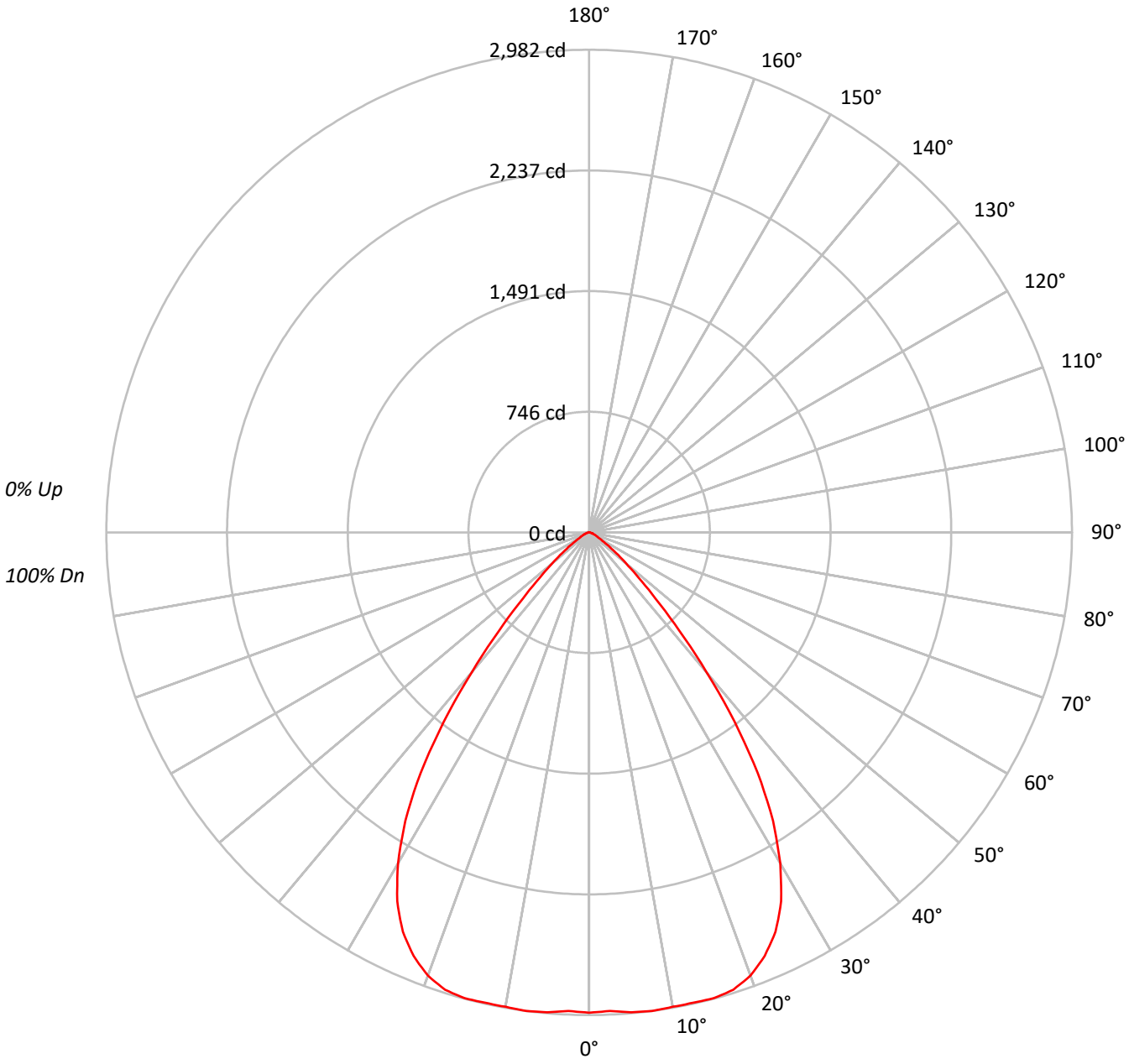
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	162695
5°	163774
10°	165667
15°	169070
20°	170016
25°	164719
30°	149428
35°	121499
40°	80651
45°	44881
50°	25168
55°	13964
60°	7708
65°	5837
70°	4055
75°	2987
80°	1799
85°	1761

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	6.8
10°-20°	840.0	20.2
20°-30°	1238.0	29.8
30°-40°	1107.3	26.7
40°-50°	480.4	11.6
50°-60°	141.2	3.4
60°-70°	45.1	1.1
70°-80°	15.9	0.4
80°-90°	2.3	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°	2362.0	56.9
0°-40°	3469.3	83.5
0°-60°	4090.9	98.5
0°-90°	4154.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2968	
5°	2976	284
15°	2979	840
25°	2723	1238
35°	1816	1107
45°	579	480
55°	146	141
65°	45	45
75°	14	16
85°	3	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2967.8
2.5°	2959.3
5°	2976.1
7.5°	2981.7
10°	2976.1
12.5°	2976.1
15°	2979.0
17.5°	2962.1
20°	2914.3
22.5°	2832.8
25°	2723.2
27.5°	2568.6
30°	2360.6
32.5°	2113.3
35°	1815.5
37.5°	1475.4
40°	1127.0
42.5°	823.5
45°	578.9
47.5°	413.1
50°	295.1
52.5°	210.8
55°	146.1
57.5°	98.4
60°	70.3
62.5°	56.2
65°	45.0
67.5°	33.8
70°	25.3
72.5°	19.7
75°	14.1
77.5°	11.2
80°	5.7
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0

Report Generated By 670245859 / DESKTOP-HRDQ47P

0°-180°

(END OF REPORT)