

Classified
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: P580141

Luminaire Tested: **HCC4S25D010BZ-HM40525830-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S25D010BZ-HM40525830-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

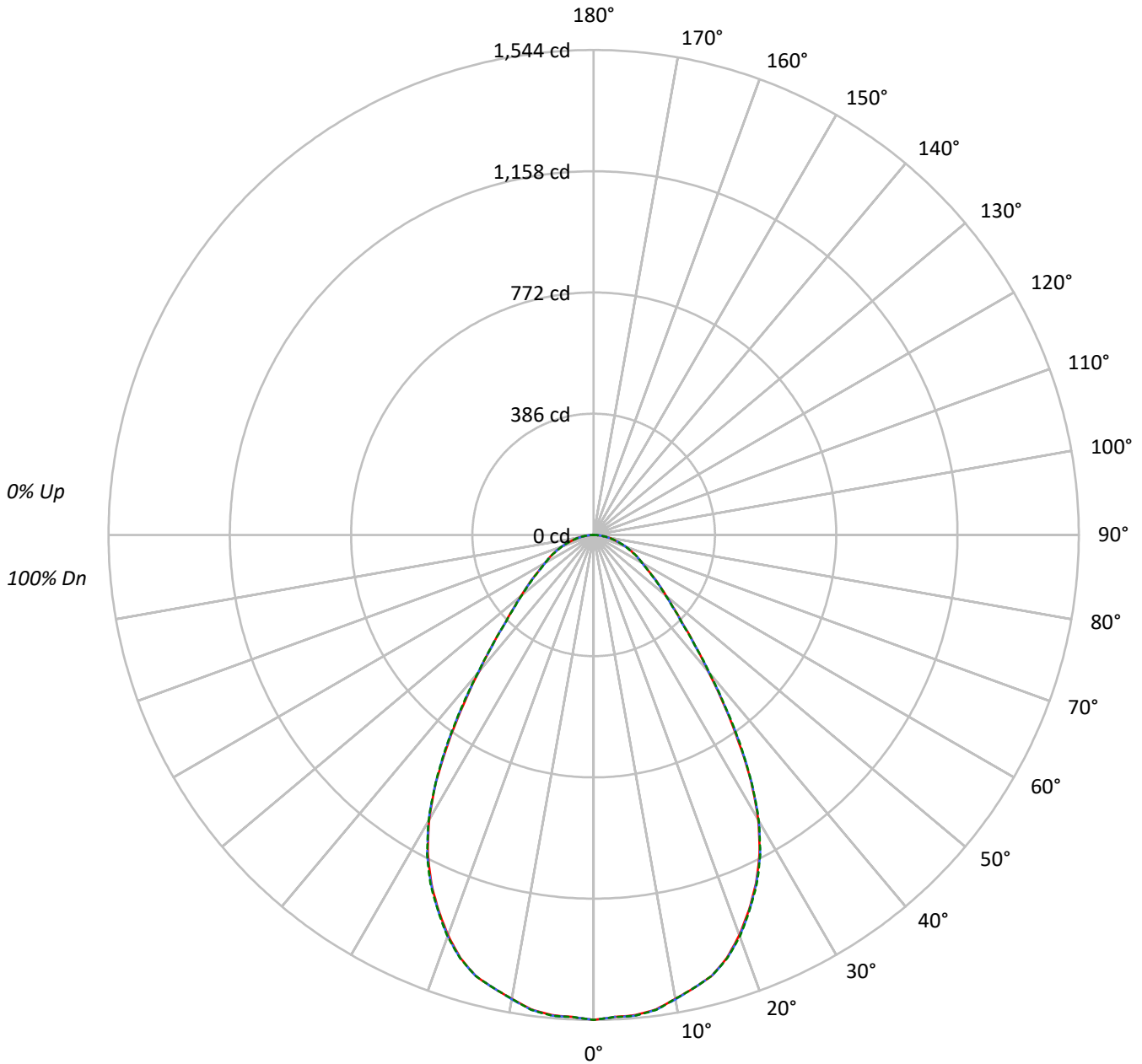
Lumens per Lamp: N/A
Luminaire Lumens: 2382.6 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	190470	190470	190470
5°	190009	190207	190207
10°	187797	187998	187797
15°	185556	185556	185556
20°	177938	178358	178555
25°	166433	166651	167086
30°	149121	149591	149591
35°	121079	122043	122284
40°	91361	91892	92150
45°	69984	69722	69722
50°	57663	57376	57376
55°	49504	49160	49160
60°	44182	43788	43788
65°	41532	41532	41532
70°	38624	38624	38624
75°	35028	35790	35028
80°	32959	31751	32959
85°	27172	27172	27172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	6.1
10°-20°	407.2	17.1
20°-30°	559.5	23.5
30°-40°	503.1	21.1
40°-50°	317.9	13.3
50°-60°	207.5	8.7
60°-70°	140.6	5.9
70°-80°	79.1	3.3
80°-90°	22.2	0.9
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°	1112.1	46.7
0°-40°	1615.2	67.8
0°-60°	2140.6	89.8
0°-90°	2382.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1535	1535	1536	1536	1536	145
15°	1453	1453	1453	1453	1453	407
25°	1223	1224	1224	1228	1228	558
35°	804	807	810	814	812	501
45°	401	400	400	400	400	318
55°	230	230	229	230	229	208
65°	142	142	142	142	142	141
75°	74	75	75	75	74	79
85°	19	19	19	19	19	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.2	1544.2	1544.2	1544.2	1544.2
2.5°	1536.2	1536.2	1536.2	1536.2	1536.2
5°	1534.6	1534.6	1536.2	1536.2	1536.2
7.5°	1523.5	1525.1	1525.1	1525.1	1525.1
10°	1499.4	1499.4	1501.0	1501.0	1499.4
12.5°	1477.1	1477.1	1477.1	1478.7	1477.1
15°	1453.1	1453.1	1453.1	1453.1	1453.1
17.5°	1411.5	1413.2	1413.2	1413.2	1413.2
20°	1355.6	1358.8	1358.8	1360.3	1360.3
22.5°	1291.7	1293.3	1294.9	1296.4	1294.9
25°	1222.9	1224.5	1224.5	1227.7	1227.7
27.5°	1143.0	1144.6	1147.7	1147.7	1147.7
30°	1047.0	1048.6	1050.3	1050.3	1050.3
32.5°	933.6	933.6	936.7	938.3	936.7
35°	804.1	807.2	810.5	813.7	812.1
37.5°	681.0	684.2	685.8	685.8	687.3
40°	567.4	570.7	570.7	573.9	572.3
42.5°	478.0	476.3	476.3	479.6	478.0
45°	401.2	399.7	399.7	399.7	399.7
47.5°	345.2	343.7	343.7	343.7	343.7
50°	300.5	299.0	299.0	299.0	299.0
52.5°	263.7	262.2	262.2	262.2	260.6
55°	230.2	230.2	228.6	230.2	228.6
57.5°	199.8	199.8	199.8	199.8	199.8
60°	179.1	177.5	177.5	177.5	177.5
62.5°	159.9	159.9	159.9	159.9	159.9
65°	142.3	142.3	142.3	142.3	142.3
67.5°	124.6	123.1	124.6	124.6	123.1
70°	107.1	105.6	107.1	107.1	107.1
72.5°	89.5	89.5	89.5	91.1	89.5
75°	73.5	75.1	75.1	75.1	73.5
77.5°	59.2	60.7	59.2	59.2	59.2
80°	46.4	44.7	44.7	44.7	46.4
82.5°	32.0	32.0	32.0	32.0	32.0
85°	19.2	19.2	19.2	19.2	19.2
87.5°	8.0	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - - 90°-270°

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