

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: P580159

Luminaire Tested: **HCC4S25D010SL-HM40525835-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580159  
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: HCC4S25D010SL-HM40525835-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

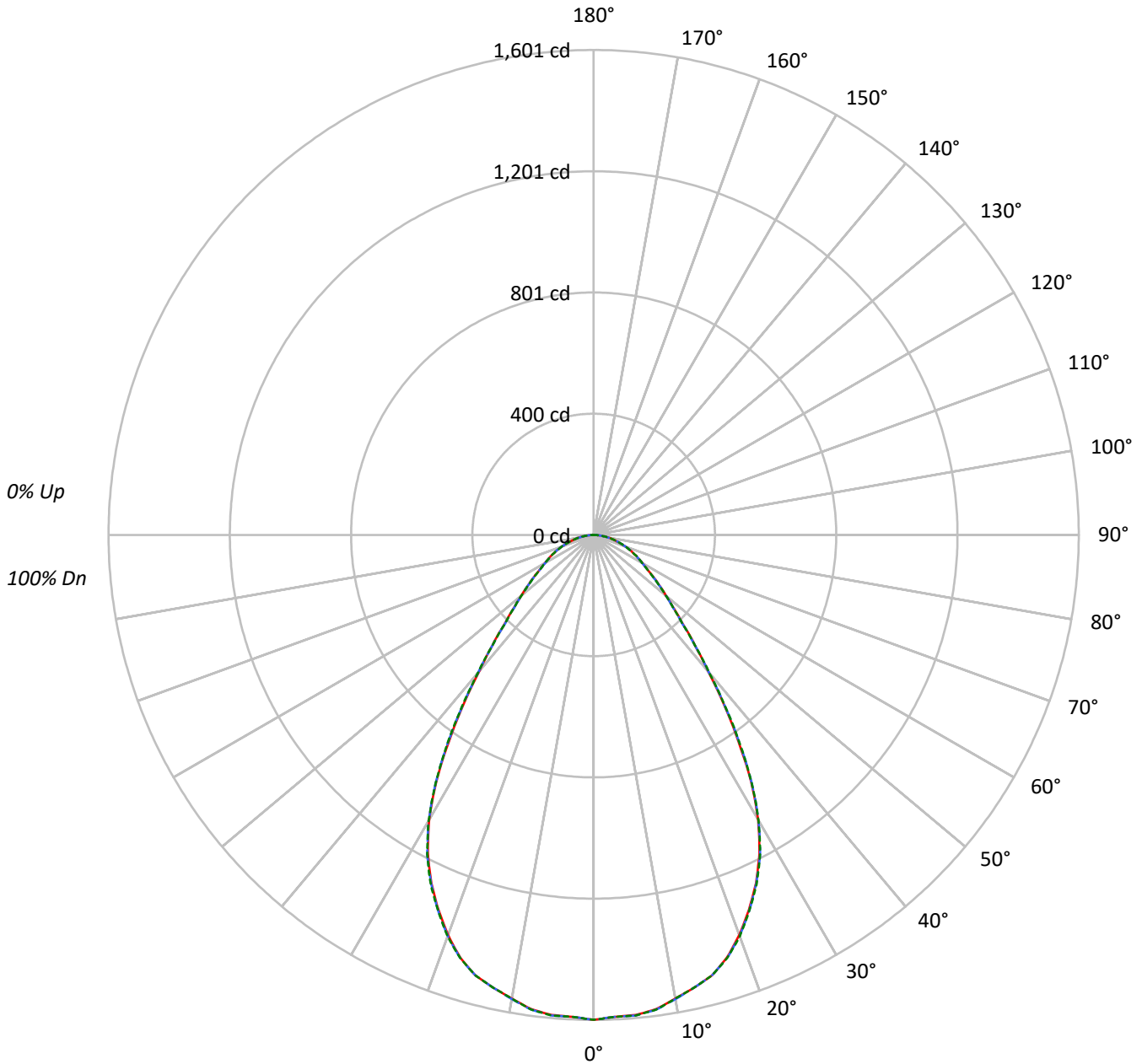
Lumens per Lamp: N/A  
Luminaire Lumens: 2469.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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				
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°	197427	197427	197427
5°	196943	197153	197153
10°	194674	194874	194674
15°	192337	192337	192337
20°	184449	184869	185092
25°	172516	172734	173197
30°	154576	155046	155046
35°	125491	126500	126756
40°	94710	95257	95515
45°	72548	72252	72252
50°	59774	59467	59467
55°	51310	50966	50966
60°	45786	45367	45367
65°	43020	43020	43020
70°	40031	40031	40031
75°	36315	37125	36315
80°	34166	32959	34166
85°	28163	28163	28163



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.8	6.1
10°-20°	422.0	17.1
20°-30°	579.9	23.5
30°-40°	521.4	21.1
40°-50°	329.5	13.3
50°-60°	215.1	8.7
60°-70°	145.7	5.9
70°-80°	82.0	3.3
80°-90°	23.0	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°	1152.8	46.7
0°-40°	1674.2	67.8
0°-60°	2218.8	89.8
0°-90°	2469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1591	1591	1592	1592	1592	151
15°	1506	1506	1506	1506	1506	422
25°	1268	1269	1269	1273	1273	579
35°	833	837	840	843	842	519
45°	416	414	414	414	414	330
55°	239	239	237	239	237	216
65°	147	147	147	147	147	146
75°	76	78	78	78	76	82
85°	20	20	20	20	20	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1600.6	1600.6	1600.6	1600.6	1600.6
2.5°	1592.3	1592.3	1592.3	1592.3	1592.3
5°	1590.6	1590.6	1592.3	1592.3	1592.3
7.5°	1579.1	1580.7	1580.7	1580.7	1580.7
10°	1554.3	1554.3	1555.9	1555.9	1554.3
12.5°	1531.0	1531.0	1531.0	1532.7	1531.0
15°	1506.2	1506.2	1506.2	1506.2	1506.2
17.5°	1463.1	1464.8	1464.8	1464.8	1464.8
20°	1405.2	1408.4	1408.4	1410.1	1410.1
22.5°	1338.9	1340.5	1342.2	1343.8	1342.2
25°	1267.6	1269.2	1269.2	1272.6	1272.6
27.5°	1184.8	1186.4	1189.7	1189.7	1189.7
30°	1085.3	1087.0	1088.6	1088.6	1088.6
32.5°	967.7	967.7	970.9	972.6	970.9
35°	833.4	836.8	840.1	843.4	841.8
37.5°	705.9	709.2	710.8	710.8	712.5
40°	588.2	591.6	591.6	594.9	593.2
42.5°	495.4	493.8	493.8	497.1	495.4
45°	415.9	414.2	414.2	414.2	414.2
47.5°	357.9	356.2	356.2	356.2	356.2
50°	311.5	309.9	309.9	309.9	309.9
52.5°	273.4	271.8	271.8	271.8	270.1
55°	238.6	238.6	237.0	238.6	237.0
57.5°	207.2	207.2	207.2	207.2	207.2
60°	185.6	183.9	183.9	183.9	183.9
62.5°	165.7	165.7	165.7	165.7	165.7
65°	147.4	147.4	147.4	147.4	147.4
67.5°	129.3	127.6	129.3	129.3	127.6
70°	111.0	109.4	111.0	111.0	111.0
72.5°	92.8	92.8	92.8	94.5	92.8
75°	76.2	77.9	77.9	77.9	76.2
77.5°	61.3	63.0	61.3	61.3	61.3
80°	48.1	46.4	46.4	46.4	48.1
82.5°	33.2	33.2	33.2	33.2	33.2
85°	19.9	19.9	19.9	19.9	19.9
87.5°	8.2	8.2	8.2	8.2	8.2
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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