

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: P580361

Luminaire Tested: **HCC4W30D010MW-HM43040930-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010MW-HM43040930-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

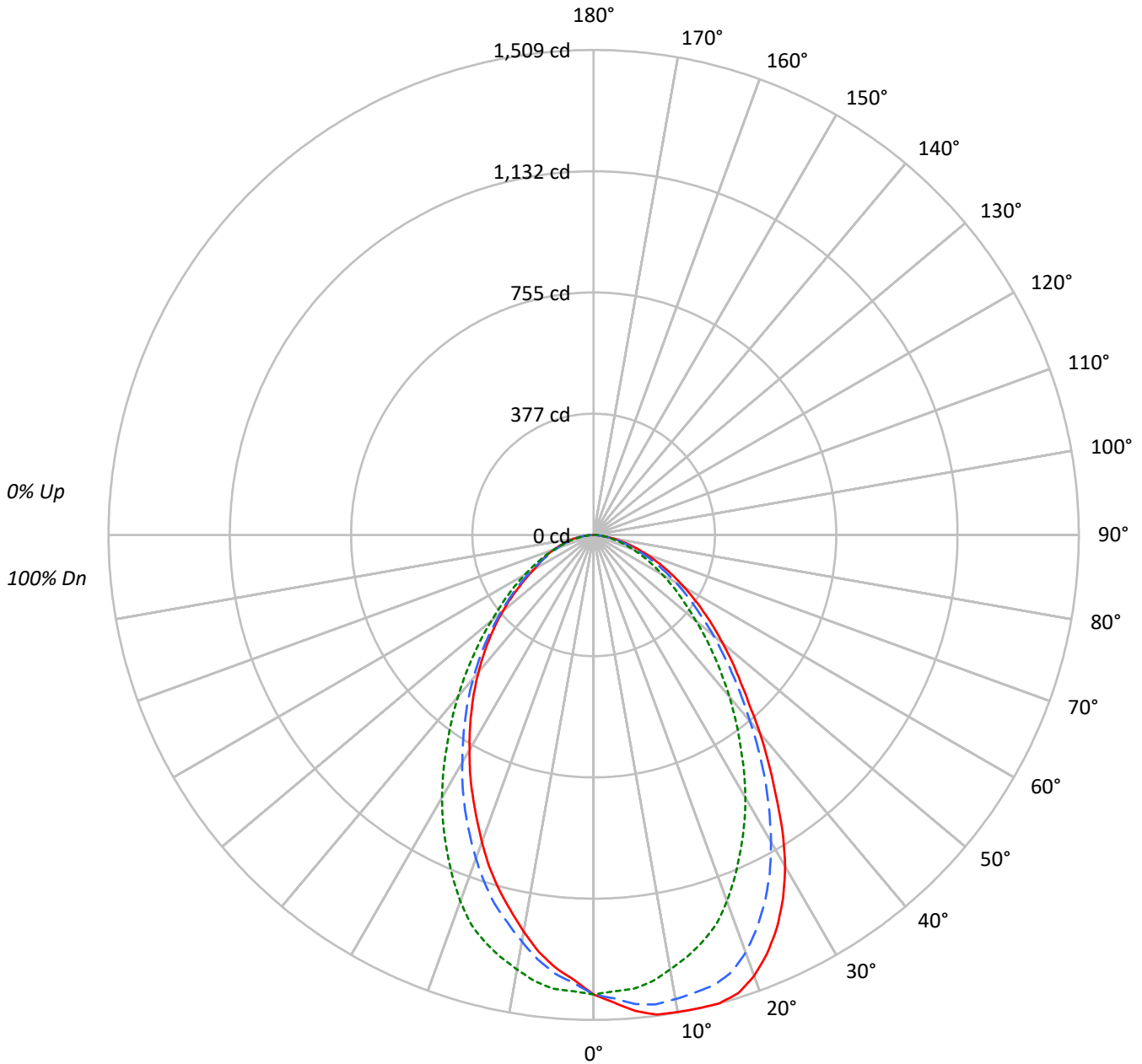
Lumens per Lamp: N/A
Luminaire Lumens: 2553.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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					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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	176347	176347	176347
5°	184103	175572	167450
10°	188762	171916	156949
15°	192669	167321	145625
20°	191655	159194	133362
25°	183595	147189	121330
30°	169617	134409	109968
35°	148665	119543	99532
40°	129457	105627	89654
45°	112669	92120	80101
50°	100398	79405	70693
55°	89696	69804	61138
60°	80076	61007	52693
65°	71185	53498	50083
70°	62499	46090	46703
75°	52899	39317	43273
80°	40630	33527	39423
85°	23776	26182	33399

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	5.2
10°-20°	369.7	14.5
20°-30°	505.1	19.8
30°-40°	507.2	19.9
40°-50°	419.5	16.4
50°-60°	304.0	11.9
60°-70°	192.6	7.5
70°-80°	97.4	3.8
80°-90°	23.8	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°	1008.8	39.5
0°-40°	1515.9	59.4
0°-60°	2239.5	87.7
0°-90°	2553.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2553.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1430	1430	1430	1430	1430	
5°	1487	1465	1418	1371	1352	142
15°	1509	1450	1310	1189	1140	424
25°	1349	1260	1082	945	892	616
35°	987	928	794	696	661	619
45°	646	609	528	476	459	502
55°	417	380	325	296	284	375
65°	244	217	183	165	172	243
75°	111	96	82	86	91	119
85°	17	17	18	22	24	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7
2.5°	1456.7	1451.6	1443.3	1433.1	1421.4	1407.9	1396.1	1389.4	1386.1
5°	1486.9	1480.3	1465.0	1443.3	1418.0	1392.7	1370.9	1357.4	1352.4
7.5°	1505.4	1495.4	1473.5	1439.9	1401.2	1364.2	1332.2	1313.7	1308.7
10°	1507.1	1495.4	1466.7	1421.4	1372.6	1323.8	1285.1	1258.2	1253.1
12.5°	1508.8	1493.7	1458.4	1404.6	1344.0	1283.4	1236.3	1204.4	1195.9
15°	1508.8	1493.7	1449.9	1386.1	1310.3	1241.4	1189.3	1152.3	1140.4
17.5°	1495.4	1478.6	1426.4	1352.4	1270.0	1192.6	1132.1	1093.4	1081.5
20°	1460.1	1441.6	1382.7	1301.9	1212.8	1132.1	1071.5	1031.1	1016.0
22.5°	1409.5	1387.7	1325.5	1238.0	1148.9	1066.4	1007.5	965.5	952.0
25°	1349.0	1327.2	1259.9	1174.1	1081.5	1004.1	945.4	906.7	891.5
27.5°	1275.0	1251.5	1185.9	1100.0	1014.3	936.9	883.1	847.8	832.6
30°	1190.9	1165.7	1103.4	1021.1	943.7	869.7	817.5	788.9	772.1
32.5°	1093.4	1071.5	1016.0	942.0	869.7	799.0	755.2	730.0	716.6
35°	987.3	975.6	928.5	864.6	793.9	735.1	696.4	672.9	661.0
37.5°	893.2	881.4	841.0	787.2	725.0	671.2	639.2	619.0	608.9
40°	804.0	793.9	755.2	709.9	656.0	608.9	582.0	566.8	556.8
42.5°	716.6	711.5	679.5	637.5	590.4	550.0	528.1	516.4	507.9
45°	645.9	639.2	608.9	568.5	528.1	494.5	476.0	467.7	459.2
47.5°	583.6	575.3	543.4	507.9	470.9	440.7	423.9	415.4	412.1
50°	523.2	514.7	486.2	450.7	413.8	391.9	378.4	370.1	368.4
52.5°	469.2	460.9	429.0	395.3	366.7	348.2	336.4	328.0	324.6
55°	417.1	407.1	380.1	348.2	324.6	307.8	296.1	287.6	284.3
57.5°	370.1	359.9	336.4	306.1	284.3	269.1	259.0	250.6	247.3
60°	324.6	316.2	294.4	265.8	247.3	233.8	223.7	217.0	213.6
62.5°	282.6	275.9	254.0	228.8	213.6	201.8	193.5	186.7	190.1
65°	243.9	237.2	217.0	195.1	183.3	171.6	164.8	164.8	171.6
67.5°	206.9	200.2	183.3	164.8	154.8	146.3	141.3	146.3	151.4
70°	173.3	166.5	151.4	136.3	127.8	121.1	121.1	126.1	129.5
72.5°	141.3	134.6	122.8	111.0	104.3	99.3	104.3	107.6	111.0
75°	111.0	105.9	95.9	87.4	82.5	80.8	85.8	89.1	90.8
77.5°	82.5	79.1	72.3	65.6	62.3	64.0	68.9	70.6	72.3
80°	57.2	55.5	50.4	47.2	47.2	48.7	52.1	53.8	55.5
82.5°	35.3	35.3	31.9	30.2	31.9	35.3	37.0	38.7	38.7
85°	16.8	18.5	16.8	16.8	18.5	21.9	21.9	23.6	23.6
87.5°	5.1	5.1	6.8	6.8	8.5	8.5	8.5	8.5	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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