

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: P580487

Luminaire Tested: **HCC4S35D010SL-HM43040927-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580487
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: HCC4S35D010SL-HM43040927-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

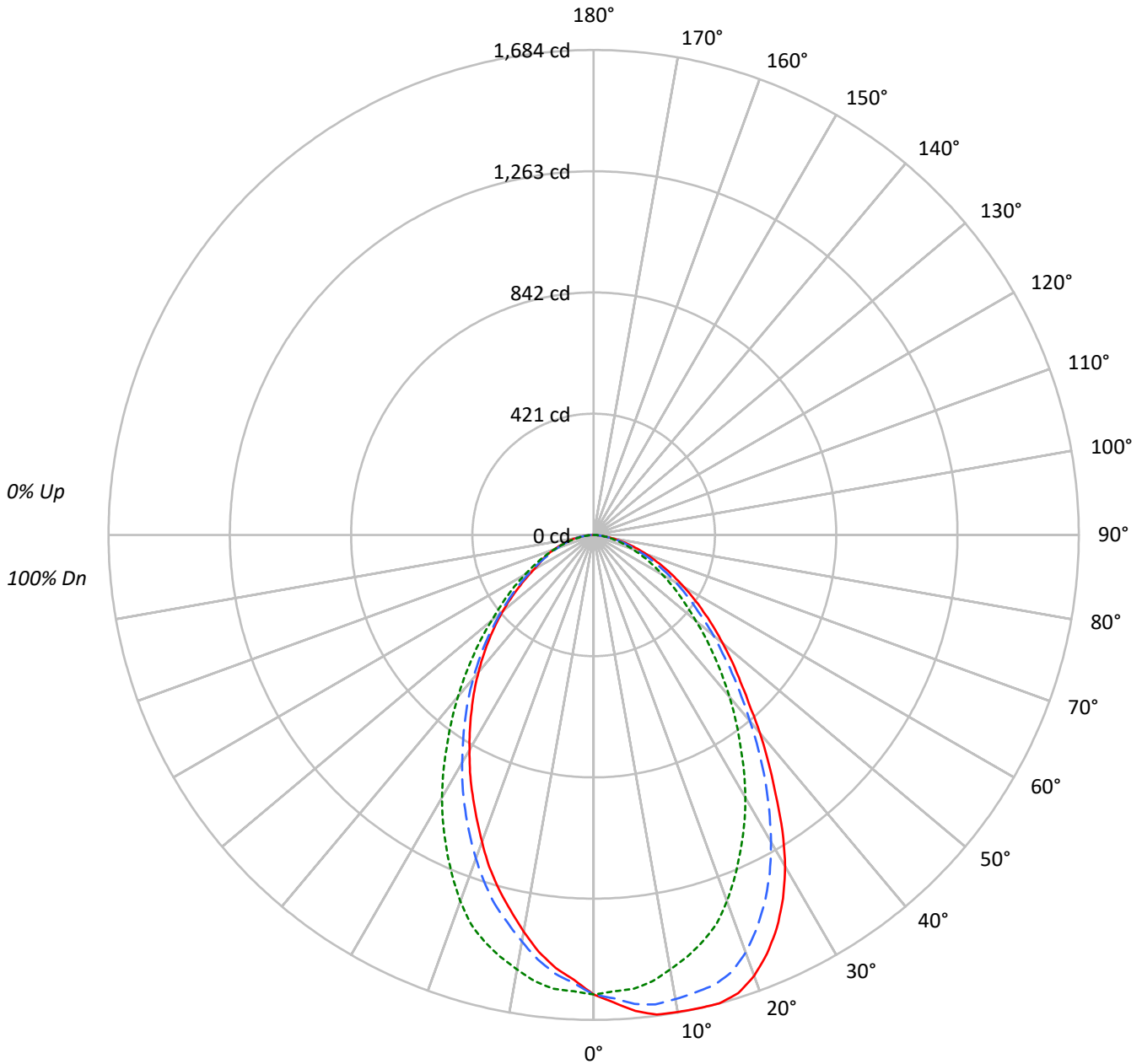
Lumens per Lamp: N/A
Luminaire Lumens: 2849.4 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580487
CATALOG NUMBER: HCC4S35D010SL-HM43040927-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580487

CATALOG NUMBER: HCC4S35D010SL-HM43040927-41WWW

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					100			
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	196810	196810	196810
5°	205474	195940	186877
10°	210668	191856	175160
15°	215029	186731	162520
20°	213878	177650	148824
25°	204894	164282	135403
30°	189286	149990	122730
35°	165921	133411	111081
40°	144480	117880	100039
45°	125734	102813	89382
50°	112026	88596	78868
55°	100126	77911	68213
60°	89376	68062	58811
65°	79444	59715	55862
70°	69711	51427	52112
75°	59047	43797	48324
80°	45318	37363	43969
85°	26606	29295	37221



TEST NUMBER: P580487
 CATALOG NUMBER: HCC4S35D010SL-HM43040927-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	5.2
10°-20°	412.6	14.5
20°-30°	563.6	19.8
30°-40°	566.0	19.9
40°-50°	468.2	16.4
50°-60°	339.3	11.9
60°-70°	214.9	7.5
70°-80°	108.6	3.8
80°-90°	26.6	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°	1125.8	39.5
0°-40°	1691.7	59.4
0°-60°	2499.2	87.7
0°-90°	2849.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1596	1596	1596	1596	1596	
5°	1660	1635	1582	1530	1509	159
15°	1684	1618	1462	1327	1273	474
25°	1506	1406	1207	1055	995	688
35°	1102	1036	886	777	738	691
45°	721	680	589	531	512	561
55°	466	424	362	330	317	419
65°	272	242	205	184	191	271
75°	124	107	92	96	101	132
85°	19	19	21	24	26	26
90°	0	0	0	0	0	

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



TEST NUMBER: P580487

CATALOG NUMBER: HCC4S35D010SL-HM43040927-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1625.6	1620.0	1610.6	1599.3	1586.2	1571.2	1558.1	1550.6	1546.8
5°	1659.5	1651.9	1635.0	1610.6	1582.5	1554.3	1529.9	1514.9	1509.3
7.5°	1680.0	1668.8	1644.4	1606.9	1563.7	1522.3	1486.7	1466.0	1460.4
10°	1682.0	1668.8	1636.9	1586.2	1531.8	1477.4	1434.1	1404.1	1398.5
12.5°	1683.9	1666.9	1627.6	1567.4	1499.9	1432.3	1379.7	1344.1	1334.6
15°	1683.9	1666.9	1618.1	1546.8	1462.3	1385.3	1327.2	1285.9	1272.7
17.5°	1668.8	1650.0	1591.8	1509.3	1417.3	1330.9	1263.4	1220.2	1207.1
20°	1629.4	1608.8	1543.0	1452.9	1353.4	1263.4	1195.7	1150.8	1133.8
22.5°	1573.0	1548.6	1479.2	1381.6	1282.1	1190.1	1124.4	1077.5	1062.5
25°	1505.5	1481.1	1406.0	1310.2	1207.1	1120.6	1055.0	1011.8	994.9
27.5°	1422.9	1396.6	1323.4	1227.6	1132.0	1045.5	985.5	946.1	929.2
30°	1329.0	1300.9	1231.5	1139.4	1053.1	970.5	912.4	880.4	861.7
32.5°	1220.2	1195.7	1133.8	1051.3	970.5	891.7	842.9	814.7	799.7
35°	1101.9	1088.8	1036.2	964.8	886.0	820.3	777.1	750.8	737.7
37.5°	996.8	983.6	938.5	878.5	809.1	749.0	713.3	690.8	679.6
40°	897.3	886.0	842.9	792.2	732.1	679.6	649.6	632.6	621.3
42.5°	799.7	794.0	758.4	711.5	658.9	613.8	589.4	576.3	566.9
45°	720.8	713.3	679.6	634.5	589.4	551.9	531.2	521.9	512.4
47.5°	651.4	642.0	606.3	566.9	525.6	491.9	473.1	463.6	459.9
50°	583.8	574.4	542.6	503.1	461.7	437.3	422.4	413.0	411.0
52.5°	523.8	514.3	478.7	441.2	409.2	388.6	375.4	366.1	362.3
55°	465.6	454.3	424.2	388.6	362.3	343.5	330.3	321.0	317.2
57.5°	413.0	401.7	375.4	341.7	317.2	300.3	289.1	279.7	275.9
60°	362.3	352.9	328.5	296.6	275.9	260.9	249.6	242.1	238.4
62.5°	315.4	307.9	283.5	255.3	238.4	225.2	215.9	208.4	212.1
65°	272.2	264.7	242.1	217.7	204.6	191.4	184.0	184.0	191.4
67.5°	230.9	223.3	204.6	184.0	172.6	163.3	157.7	163.3	168.9
70°	193.3	185.8	168.9	152.1	142.6	135.1	135.1	140.8	144.5
72.5°	157.7	150.2	137.0	123.9	116.3	110.7	116.3	120.2	123.9
75°	123.9	118.2	107.0	97.6	91.9	90.1	95.8	99.5	101.4
77.5°	91.9	88.2	80.7	73.2	69.5	71.4	77.0	78.8	80.7
80°	63.8	61.9	56.3	52.6	52.6	54.4	58.2	60.0	61.9
82.5°	39.5	39.5	35.6	33.8	35.6	39.5	41.3	43.2	43.2
85°	18.8	20.7	18.8	18.8	20.7	24.4	24.4	26.3	26.3
87.5°	5.6	5.6	7.5	7.5	9.4	9.4	9.4	9.4	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)