

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P241976

Luminaire Tested: **PRS430D010-S4M24-41SMDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDC-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2440.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.85
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

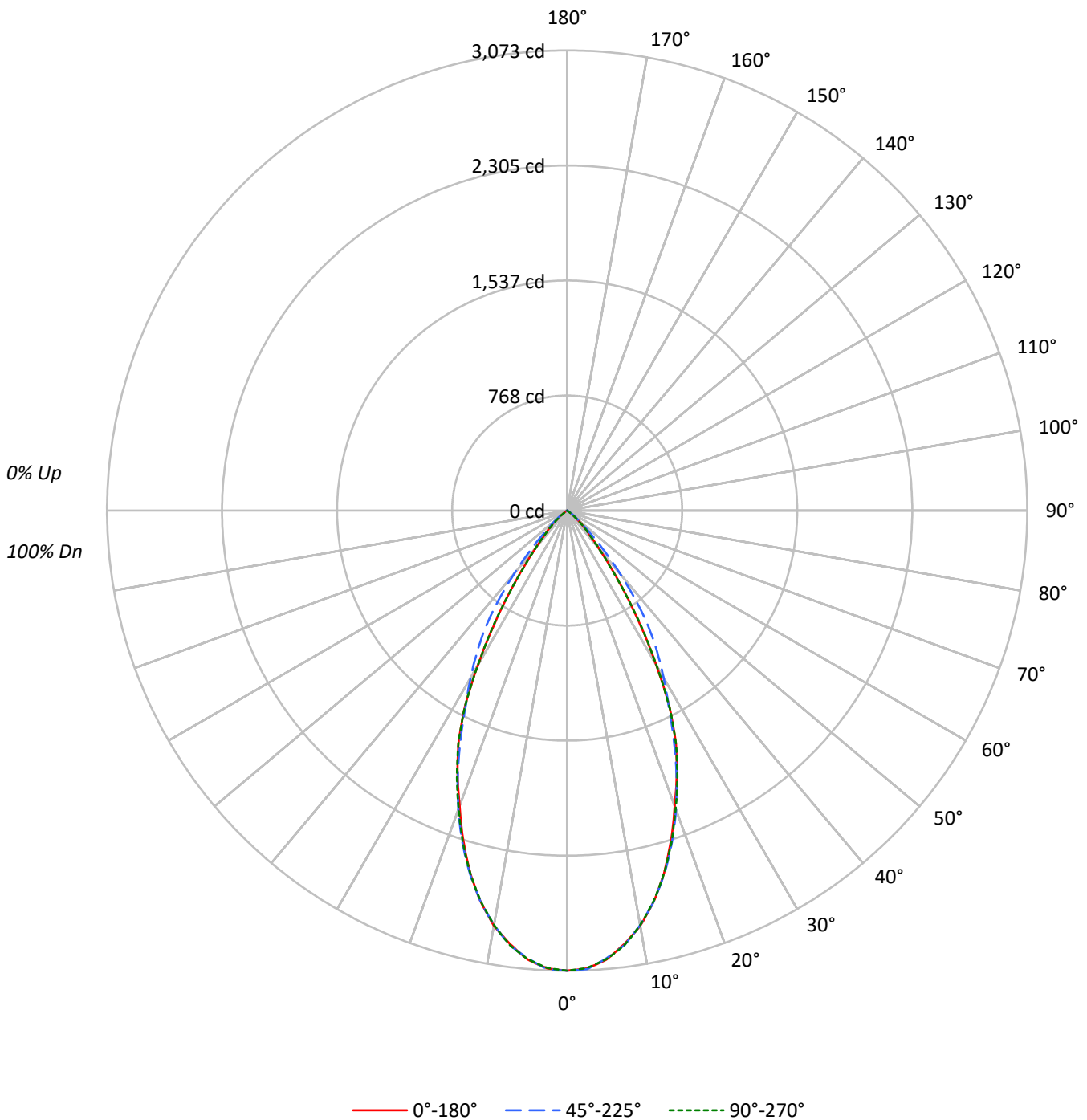
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	235210	235210	235210
5°	231322	230722	231122
10°	218864	218459	218459
15°	198465	198878	198465
20°	171025	173142	172507
25°	145104	142039	145104
30°	105514	113778	105293
35°	63298	88518	63055
40°	32934	54457	32674
45°	17980	25850	17417
50°	8038	10812	7728
55°	694	4497	347
60°	398	1194	398
65°	0	471	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	11.5
10°-20°	695.7	28.5
20°-30°	775.5	31.8
30°-40°	499.2	20.5
40°-50°	162.8	6.7
50°-60°	25.5	1.0
60°-70°	1.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1752.1	71.8
0°-40°	2251.2	92.2
0°-60°	2439.5	99.9
0°-90°	2440.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3073	3073	3073	3073	3073	
5°	3011	3011	3003	3013	3008	281
15°	2504	2504	2510	2510	2504	694
25°	1718	1716	1682	1716	1718	770
35°	677	781	947	779	675	433
45°	166	190	239	184	161	135
55°	5	21	34	21	3	16
65°	0	0	3	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.9	3072.9	3072.9	3072.9	3072.9
2.5°	3059.9	3062.5	3065.1	3062.5	3057.3
5°	3010.6	3010.6	3002.8	3013.2	3008.0
7.5°	2919.7	2922.3	2927.5	2922.3	2927.5
10°	2815.9	2810.7	2810.7	2810.7	2810.7
12.5°	2673.2	2670.6	2673.2	2670.6	2670.6
15°	2504.5	2504.5	2509.7	2509.7	2504.5
17.5°	2307.2	2312.4	2325.4	2322.8	2317.6
20°	2099.6	2110.0	2125.6	2112.6	2117.8
22.5°	1912.7	1902.4	1907.6	1902.4	1923.1
25°	1718.1	1715.5	1681.8	1715.5	1718.1
27.5°	1479.3	1515.7	1466.4	1518.3	1479.3
30°	1193.8	1284.7	1287.3	1295.1	1191.3
32.5°	916.1	1022.6	1118.6	1027.7	926.5
35°	677.4	781.2	947.3	778.6	674.8
37.5°	472.3	565.8	750.0	563.2	467.2
40°	329.6	391.9	545.0	394.5	327.0
42.5°	231.0	272.5	371.1	264.7	228.4
45°	166.1	189.5	238.8	184.3	160.9
47.5°	114.2	132.4	147.9	129.8	111.6
50°	67.5	88.2	90.8	88.2	64.9
52.5°	31.1	49.3	57.1	49.3	31.1
55°	5.2	20.8	33.7	20.8	2.6
57.5°	2.6	2.6	18.2	2.6	2.6
60°	2.6	2.6	7.8	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6
65°	0.0	0.0	2.6	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)