

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: P241966

Luminaire Tested: **PRS430D010-S4M24-41SMDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241966  
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-3000K  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2310.7 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

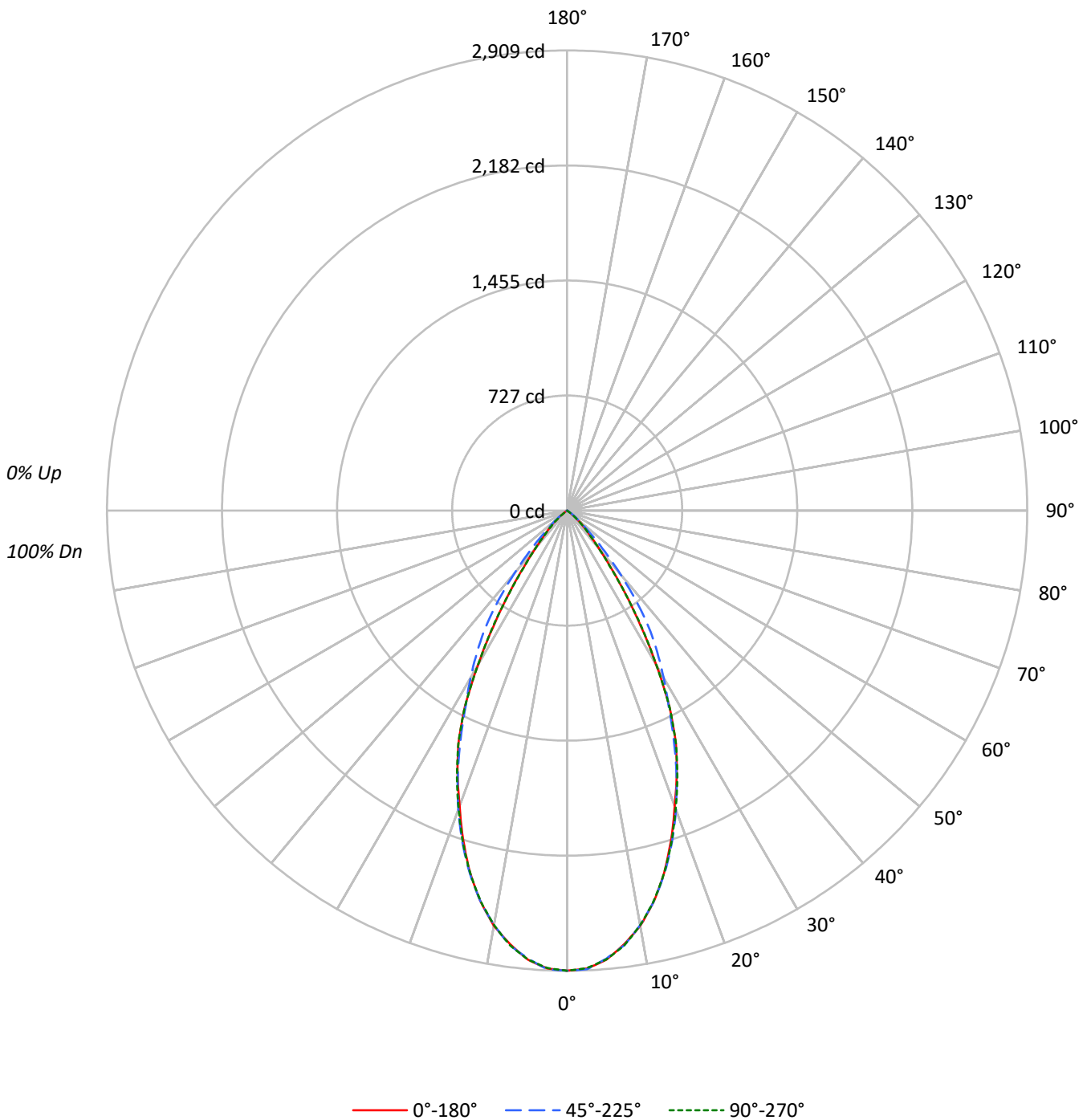
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	222672	222672	222672
5°	218990	218429	218805
10°	207205	206816	206816
15°	187886	188275	187886
20°	161910	163913	163311
25°	137368	134463	137368
30°	99892	107714	99680
35°	59925	83799	59691
40°	31175	51559	30935
45°	17017	24464	16486
50°	7609	10241	7312
55°	654	4257	334
60°	383	1133	383
65°	0	453	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°	265.9	11.5
10°-20°	658.6	28.5
20°-30°	734.1	31.8
30°-40°	472.6	20.5
40°-50°	154.1	6.7
50°-60°	24.1	1.0
60°-70°	1.2	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°	1658.7	71.8
0°-40°	2131.3	92.2
0°-60°	2309.5	99.9
0°-90°	2310.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2909	2909	2909	2909	2909	
5°	2850	2850	2843	2853	2848	266
15°	2371	2371	2376	2376	2371	657
25°	1626	1624	1592	1624	1626	729
35°	641	740	897	737	639	410
45°	157	179	226	174	152	128
55°	5	20	32	20	2	15
65°	0	0	2	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°	2909.1	2909.1	2909.1	2909.1	2909.1
2.5°	2896.8	2899.3	2901.7	2899.3	2894.4
5°	2850.1	2850.1	2842.8	2852.6	2847.7
7.5°	2764.1	2766.6	2771.5	2766.6	2771.5
10°	2665.9	2660.9	2660.9	2660.9	2660.9
12.5°	2530.7	2528.3	2530.7	2528.3	2528.3
15°	2371.0	2371.0	2375.9	2375.9	2371.0
17.5°	2184.3	2189.2	2201.5	2199.0	2194.1
20°	1987.7	1997.6	2012.3	2000.0	2004.9
22.5°	1810.8	1801.0	1805.9	1801.0	1820.6
25°	1626.5	1624.1	1592.1	1624.1	1626.5
27.5°	1400.5	1434.9	1388.2	1437.4	1400.5
30°	1130.2	1216.2	1218.7	1226.1	1127.8
32.5°	867.3	968.1	1059.0	973.0	877.2
35°	641.3	739.6	896.8	737.1	638.8
37.5°	447.2	535.6	710.1	533.2	442.3
40°	312.0	371.0	516.0	373.5	309.6
42.5°	218.7	258.0	351.4	250.6	216.2
45°	157.2	179.4	226.0	174.4	152.3
47.5°	108.1	125.3	140.0	122.9	105.7
50°	63.9	83.5	86.0	83.5	61.4
52.5°	29.5	46.7	54.1	46.7	29.5
55°	4.9	19.7	31.9	19.7	2.5
57.5°	2.5	2.5	17.2	2.5	2.5
60°	2.5	2.5	7.4	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5
65°	0.0	0.0	2.5	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)