

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: P241686

Luminaire Tested: **PRS430D010-S4M24-44SNDMW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-40)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-44SNDMW  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2558.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.94  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

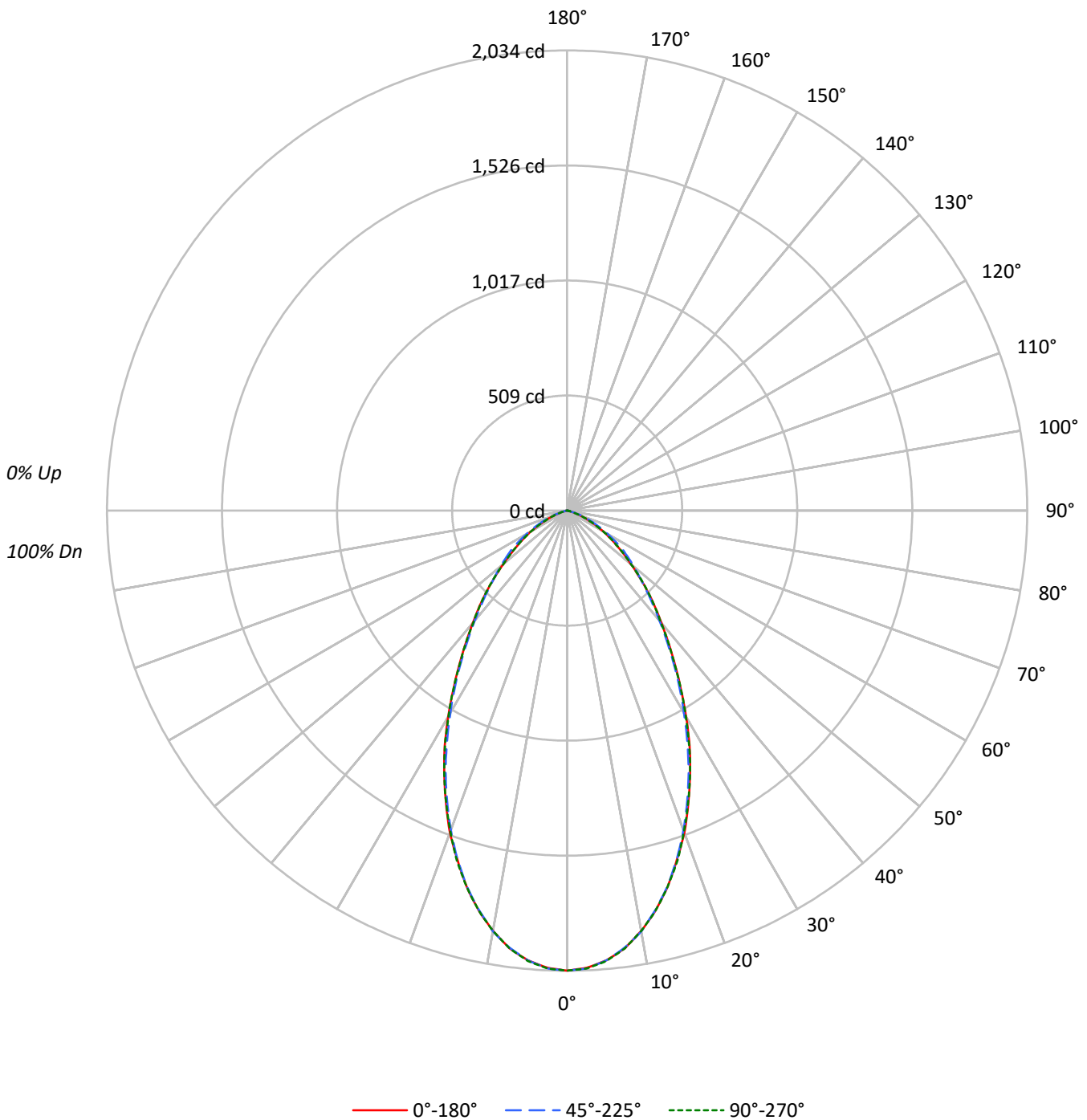
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72					72			
4	91	82	75	69	89	80	74	69	78	73	68	76	71	67	74	70	66	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	155651	155651	155651
5°	153310	153310	153518
10°	146596	146805	146596
15°	136267	136045	136267
20°	123397	122501	122949
25°	108577	107420	108577
30°	92883	91186	92636
35°	77538	76511	77277
40°	64638	63549	64369
45°	54070	53183	54363
50°	43881	45834	43881
55°	35337	39701	35698
60°	28000	31337	28000
65°	20267	23726	20267
70°	12219	15263	12219
75°	4022	6447	4022
80°	3615	3615	3615
85°	2371	2371	2371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.1	7.3
10°-20°	479.4	18.7
20°-30°	585.0	22.9
30°-40°	517.1	20.2
40°-50°	385.9	15.1
50°-60°	250.3	9.8
60°-70°	123.3	4.8
70°-80°	26.8	1.0
80°-90°	3.3	0.1
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°	1251.5	48.9
0°-40°	1768.6	69.1
0°-60°	2404.7	94.0
0°-90°	2558.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	1995	1995	1995	1998	1998	187
15°	1720	1720	1717	1720	1720	480
25°	1286	1283	1272	1280	1286	588
35°	830	824	819	824	827	521
45°	500	500	491	497	502	387
55°	265	273	298	276	268	240
65°	112	126	131	123	112	113
75°	14	16	22	16	14	23
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2033.5	2033.5	2033.5	2033.5	2033.5
2.5°	2022.6	2022.6	2025.3	2025.3	2025.3
5°	1995.3	1995.3	1995.3	1998.0	1998.0
7.5°	1951.6	1948.9	1948.9	1951.6	1951.6
10°	1886.1	1886.1	1888.8	1883.3	1886.1
12.5°	1809.7	1809.7	1806.9	1809.7	1809.7
15°	1719.6	1719.6	1716.8	1719.6	1719.6
17.5°	1615.9	1615.9	1613.1	1618.6	1621.3
20°	1514.9	1512.1	1503.9	1509.4	1509.4
22.5°	1400.2	1397.5	1386.6	1394.8	1397.5
25°	1285.6	1282.9	1271.9	1280.1	1285.6
27.5°	1171.0	1160.0	1149.1	1162.8	1168.2
30°	1050.9	1042.7	1031.7	1042.7	1048.1
32.5°	936.2	933.5	922.6	930.8	936.2
35°	829.8	824.3	818.8	824.3	827.0
37.5°	734.2	728.8	720.6	728.8	734.2
40°	646.9	641.4	636.0	638.7	644.2
42.5°	573.2	567.7	559.5	565.0	570.5
45°	499.5	499.5	491.3	496.8	502.2
47.5°	431.3	436.7	434.0	436.7	434.0
50°	368.5	379.4	384.9	379.4	368.5
52.5°	313.9	322.1	338.5	322.1	313.9
55°	264.8	272.9	297.5	275.7	267.5
57.5°	223.8	232.0	251.1	232.0	223.8
60°	182.9	193.8	204.7	193.8	182.9
62.5°	147.4	158.3	166.5	158.3	144.7
65°	111.9	125.6	131.0	122.8	111.9
67.5°	81.9	92.8	98.3	92.8	81.9
70°	54.6	65.5	68.2	65.5	54.6
72.5°	32.8	40.9	40.9	38.2	32.8
75°	13.6	16.4	21.8	16.4	13.6
77.5°	10.9	10.9	10.9	10.9	10.9
80°	8.2	8.2	8.2	8.2	8.2
82.5°	5.5	5.5	5.5	5.5	5.5
85°	2.7	2.7	2.7	2.7	2.7
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)