

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: P241776

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-44SNDC  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

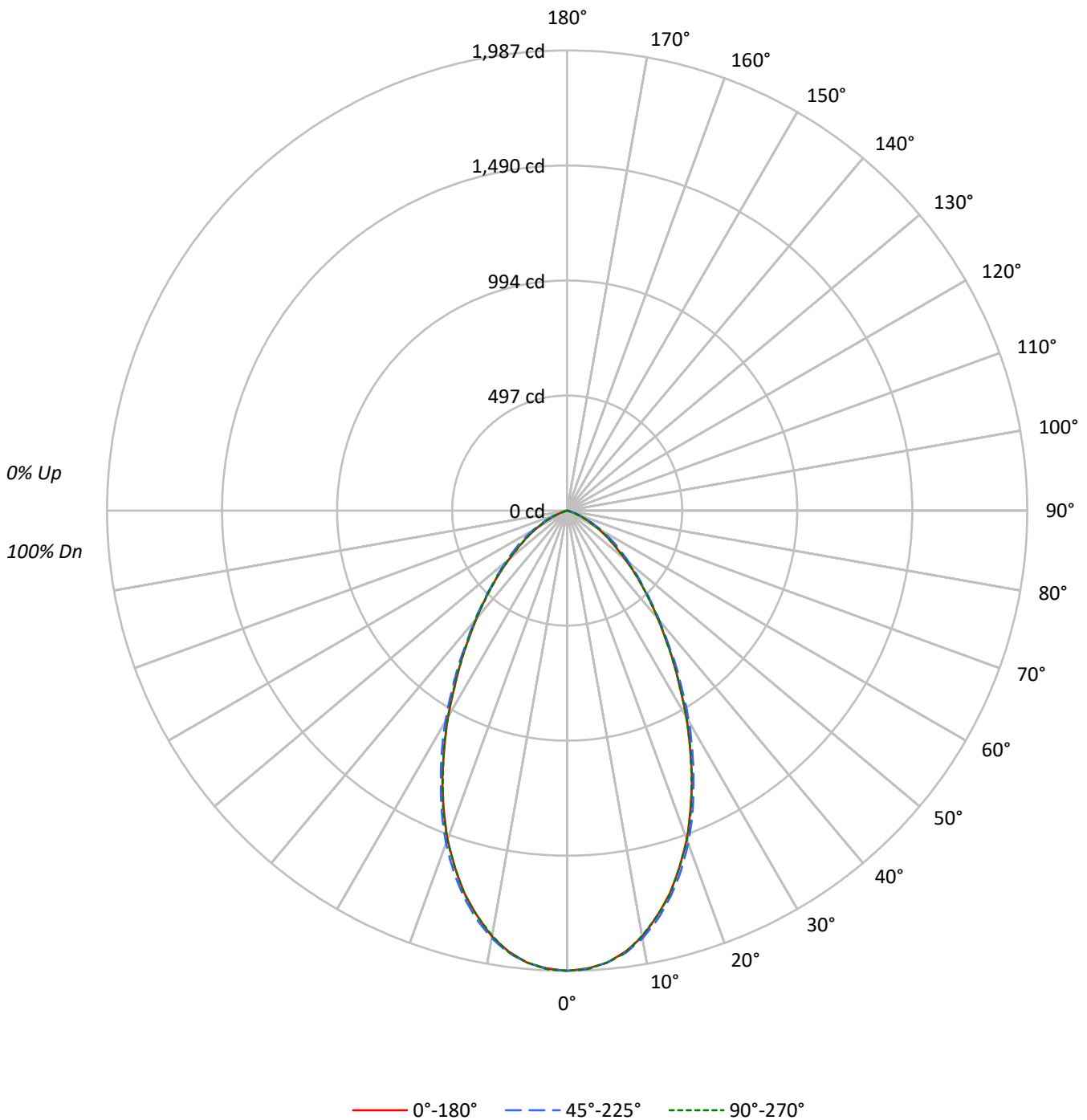
Lumens per Lamp: N/A  
Luminaire Lumens: 2448.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50					50			
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	152107	152107	152107
5°	150590	150590	150590
10°	145119	145756	144909
15°	135625	136703	135839
20°	122958	124513	123177
25°	107665	109042	107200
30°	90957	92883	90957
35°	74735	76520	74735
40°	60821	61911	61091
45°	49351	50227	49351
50°	39011	41285	39011
55°	30600	33883	30600
60°	23407	25902	23407
65°	15812	18293	15812
70°	7945	10384	7945
75°	0	2425	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	7.5
10°-20°	479.7	19.6
20°-30°	587.6	24.0
30°-40°	508.9	20.8
40°-50°	361.0	14.7
50°-60°	218.2	8.9
60°-70°	97.4	4.0
70°-80°	11.9	0.5
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°	1251.5	51.1
0°-40°	1760.4	71.9
0°-60°	2339.6	95.5
0°-90°	2448.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1960	1960	1960	1960	1960	184
15°	1712	1720	1725	1722	1714	477
25°	1275	1291	1291	1288	1269	582
35°	800	816	819	813	800	501
45°	456	467	464	470	456	354
55°	229	240	254	243	229	207
65°	87	98	101	98	87	88
75°	0	3	8	3	0	8
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°	1987.2	1987.2	1987.2	1987.2	1987.2
2.5°	1979.0	1979.0	1981.7	1981.7	1981.7
5°	1959.9	1959.9	1959.9	1959.9	1959.9
7.5°	1921.7	1921.7	1927.1	1924.4	1924.4
10°	1867.1	1867.1	1875.3	1869.8	1864.4
12.5°	1793.4	1801.6	1807.0	1801.6	1793.4
15°	1711.5	1719.7	1725.1	1722.4	1714.2
17.5°	1613.2	1626.9	1632.3	1626.9	1613.2
20°	1509.5	1520.4	1528.6	1520.4	1512.2
22.5°	1392.1	1405.8	1414.0	1405.8	1397.6
25°	1274.8	1291.1	1291.1	1288.4	1269.3
27.5°	1146.5	1165.6	1171.0	1165.6	1149.2
30°	1029.1	1042.7	1050.9	1042.7	1029.1
32.5°	906.2	925.4	928.1	925.4	909.0
35°	799.8	816.2	818.9	813.4	799.8
37.5°	698.8	715.2	709.7	715.2	698.8
40°	608.7	622.4	619.6	622.4	611.4
42.5°	529.6	540.5	537.7	540.5	526.8
45°	455.9	466.8	464.0	469.5	455.9
47.5°	390.3	401.3	404.0	401.3	390.3
50°	327.6	343.9	346.7	343.9	327.6
52.5°	273.0	286.6	297.5	289.3	273.0
55°	229.3	240.2	253.9	242.9	229.3
57.5°	188.3	199.3	210.2	202.0	188.3
60°	152.9	163.8	169.2	163.8	152.9
62.5°	117.4	131.0	133.8	131.0	117.4
65°	87.3	98.3	101.0	98.3	87.3
67.5°	60.1	71.0	71.0	71.0	60.1
70°	35.5	43.7	46.4	46.4	35.5
72.5°	13.6	21.8	24.6	21.8	16.4
75°	0.0	2.7	8.2	2.7	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)