

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: P241731

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-43)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-44SNDH  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

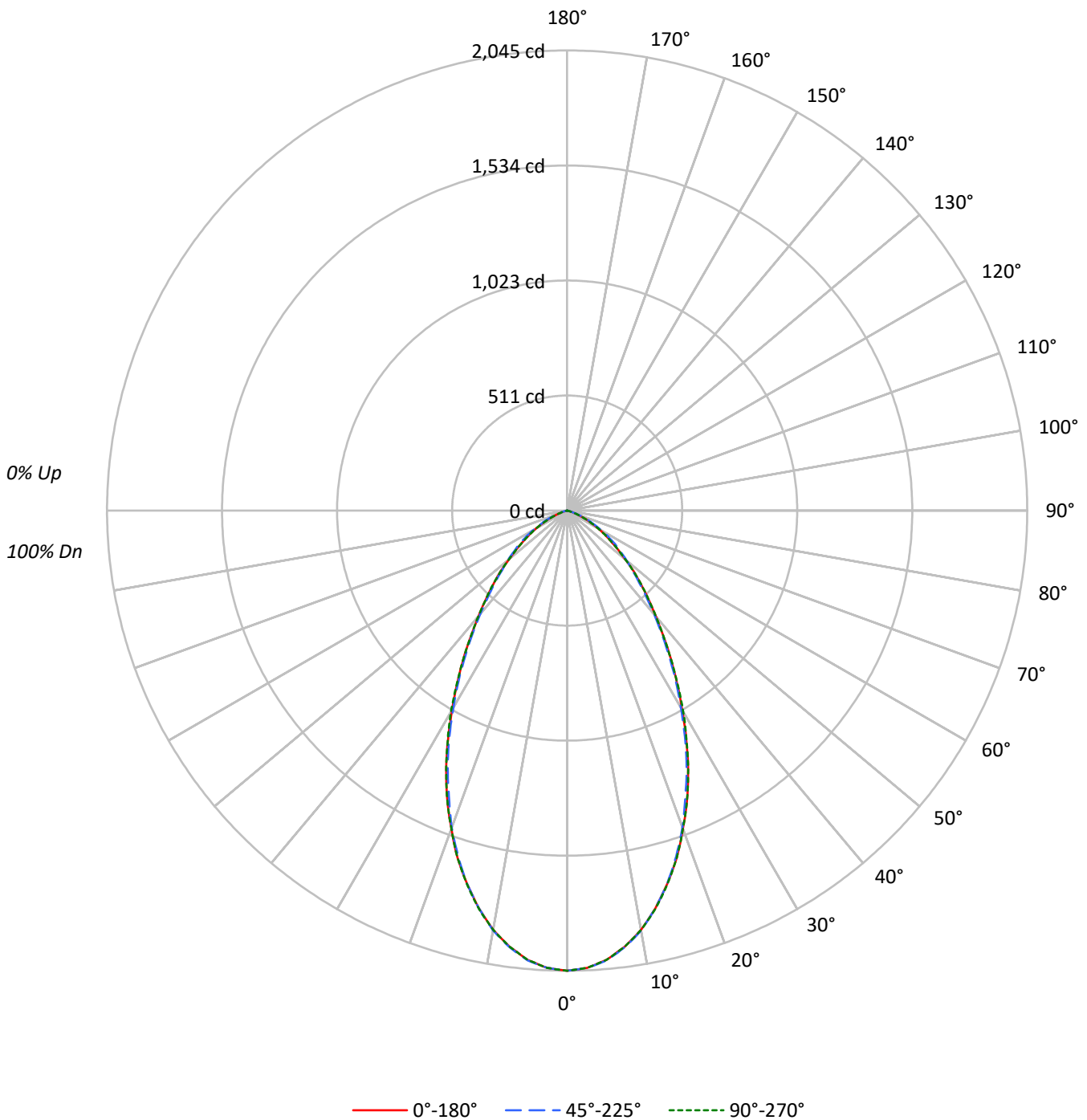
Lumens per Lamp: N/A  
Luminaire Lumens: 2438.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.92  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	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	62	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	52	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	46	41	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	156539	156539	156539
5°	153994	154202	153994
10°	147070	147287	147070
15°	136101	136101	136315
20°	122550	122102	122550
25°	107462	106077	107462
30°	90258	89295	91222
35°	75015	73735	75015
40°	61111	60022	61391
45°	50249	49069	50541
50°	40321	40964	39999
55°	31708	34617	31708
60°	24249	26760	24249
65°	16808	19289	16319
70°	8549	10988	8549
75°	799	3224	799
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.8	7.7
10°-20°	479.2	19.7
20°-30°	577.9	23.7
30°-40°	499.5	20.5
40°-50°	357.6	14.7
50°-60°	221.2	9.1
60°-70°	100.8	4.1
70°-80°	14.1	0.6
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°	1244.9	51.1
0°-40°	1744.4	71.5
0°-60°	2323.1	95.3
0°-90°	2438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2004	2004	2007	2004	2004	188
15°	1718	1718	1718	1720	1720	480
25°	1272	1264	1256	1267	1272	581
35°	803	795	789	800	803	502
45°	464	459	453	462	467	360
55°	238	243	259	243	238	215
65°	93	101	106	101	90	93
75°	3	6	11	6	3	11
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°	2045.1	2045.1	2045.1	2045.1	2045.1
2.5°	2034.2	2034.2	2034.2	2034.2	2034.2
5°	2004.2	2004.2	2006.9	2004.2	2004.2
7.5°	1955.0	1957.8	1957.8	1957.8	1955.0
10°	1892.2	1892.2	1895.0	1892.2	1892.2
12.5°	1810.3	1810.3	1810.3	1813.0	1813.0
15°	1717.5	1717.5	1717.5	1720.2	1720.2
17.5°	1619.2	1616.5	1611.0	1613.7	1619.2
20°	1504.5	1501.8	1499.0	1501.8	1504.5
22.5°	1392.6	1381.6	1373.4	1387.1	1392.6
25°	1272.4	1264.2	1256.0	1266.9	1272.4
27.5°	1146.8	1141.3	1133.2	1141.3	1149.5
30°	1021.2	1021.2	1010.3	1021.2	1032.1
32.5°	909.3	906.5	898.3	903.8	912.0
35°	802.8	794.6	789.1	800.0	802.8
37.5°	701.7	699.0	690.8	699.0	701.7
40°	611.6	606.2	600.7	608.9	614.4
42.5°	535.2	529.7	521.5	529.7	535.2
45°	464.2	458.7	453.3	461.5	466.9
47.5°	401.4	398.7	393.2	398.7	401.4
50°	338.6	344.0	344.0	341.3	335.9
52.5°	284.0	286.7	297.6	286.7	284.0
55°	237.6	243.0	259.4	243.0	237.6
57.5°	196.6	202.1	215.7	202.1	196.6
60°	158.4	166.6	174.8	166.6	158.4
62.5°	122.9	133.8	136.5	131.1	122.9
65°	92.8	101.0	106.5	101.0	90.1
67.5°	62.8	73.7	76.5	73.7	62.8
70°	38.2	49.1	49.1	49.1	38.2
72.5°	19.1	24.6	27.3	24.6	19.1
75°	2.7	5.5	10.9	5.5	2.7
77.5°	0.0	0.0	2.7	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)