

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: P252976

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-41SWDMB-3000K  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1379.7 lumens  
Efficiency: N/A  
Efficacy: 55.2 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.1 / 1.15  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

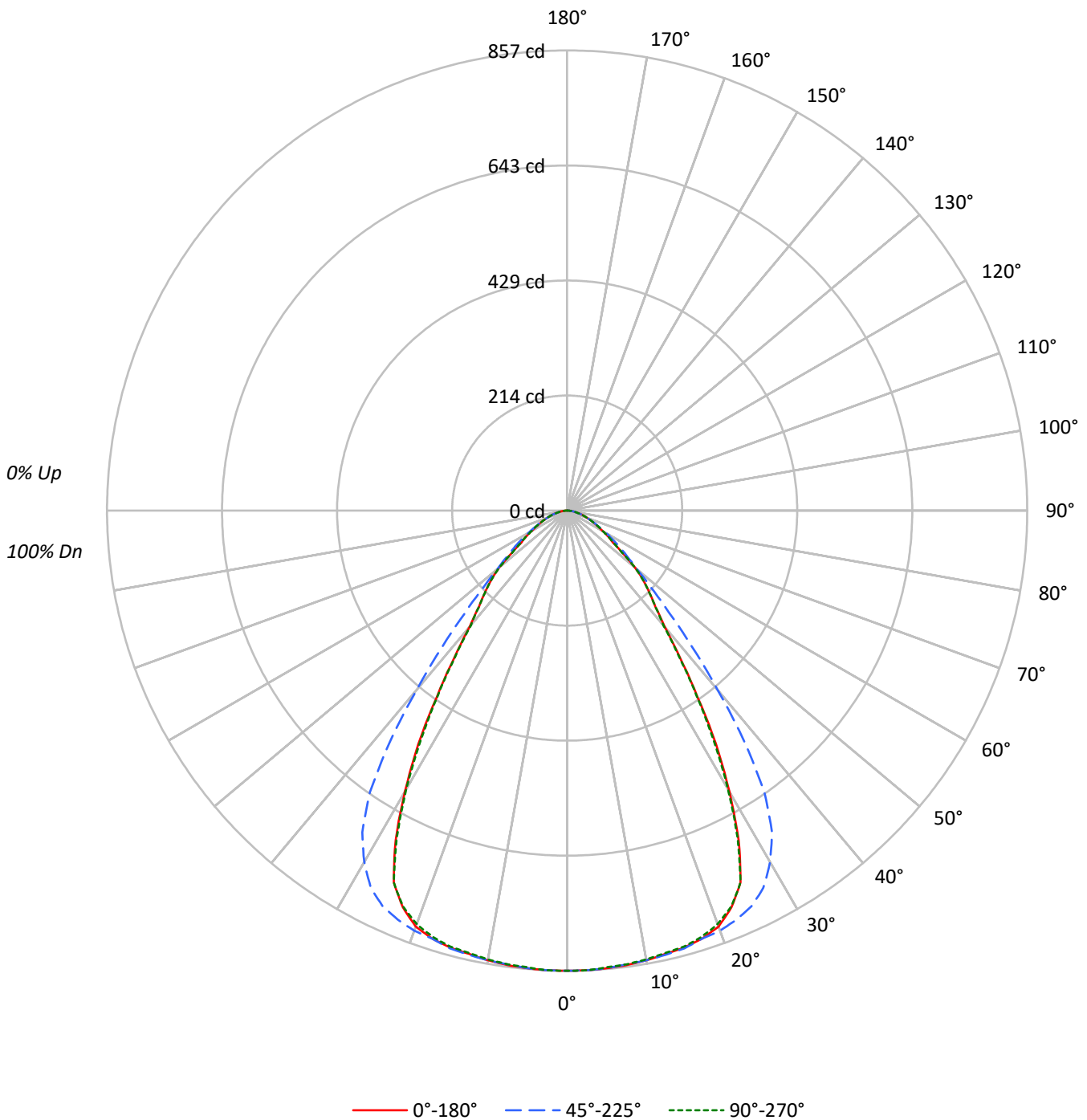
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41					41			
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38					38			

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

	0°	45°	90°
0°	65598	65598	65598
5°	65725	65725	65595
10°	66104	66104	65972
15°	66747	66874	66620
20°	67152	67812	66753
25°	64525	68655	64525
30°	53384	66801	52951
35°	39507	59794	39199
40°	28217	43545	27888
45°	23501	28978	23501
50°	19636	20220	19636
55°	13945	16121	14159
60°	11742	12752	11742
65°	10052	10342	10052
70°	8773	8773	8773
75°	7719	7719	7719
80°	6480	6480	6480
85°	5709	5709	5709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	5.9
10°-20°	238.0	17.2
20°-30°	355.6	25.8
30°-40°	316.6	22.9
40°-50°	188.4	13.7
50°-60°	106.7	7.7
60°-70°	57.2	4.1
70°-80°	28.0	2.0
80°-90°	7.8	0.6
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°	675.1	48.9
0°-40°	991.6	71.9
0°-60°	1286.7	93.3
0°-90°	1379.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	855	855	855	854	82
15°	842	842	844	841	841	238
25°	764	785	813	784	764	341
35°	423	495	640	493	420	267
45°	217	233	268	232	217	169
55°	104	116	121	116	106	100
65°	56	57	57	57	56	56
75°	26	26	26	26	26	28
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	857.0	857.0	857.0	857.0	857.0
2.5°	857.0	857.0	857.0	857.0	857.0
5°	855.4	855.4	855.4	855.4	853.7
7.5°	853.7	852.1	852.1	852.1	852.1
10°	850.5	850.5	850.5	848.8	848.8
12.5°	845.6	845.6	847.2	845.6	843.9
15°	842.3	842.3	843.9	840.7	840.7
17.5°	835.8	837.4	835.8	835.8	832.5
20°	824.4	829.3	832.5	827.6	819.5
22.5°	799.9	812.9	824.4	811.3	798.2
25°	764.0	785.2	812.9	783.5	764.0
27.5°	692.1	746.0	791.7	741.1	687.2
30°	604.0	669.3	755.8	664.4	599.1
32.5°	515.8	581.1	710.1	577.9	507.7
35°	422.8	494.6	639.9	493.0	419.5
37.5°	344.4	409.7	542.0	406.5	341.2
40°	282.4	333.0	435.8	331.4	279.1
42.5°	243.2	271.0	344.4	269.3	243.2
45°	217.1	233.4	267.7	231.8	217.1
47.5°	192.6	205.7	210.6	204.0	192.6
50°	164.9	179.6	169.8	179.6	164.9
52.5°	130.6	148.5	142.0	150.2	129.0
55°	104.5	115.9	120.8	115.9	106.1
57.5°	91.4	94.7	101.2	94.7	91.4
60°	76.7	80.0	83.3	80.0	76.7
62.5°	65.3	68.6	68.6	68.6	66.9
65°	55.5	57.1	57.1	57.1	55.5
67.5°	47.3	47.3	47.3	47.3	47.3
70°	39.2	39.2	39.2	39.2	39.2
72.5°	32.6	32.6	32.6	32.6	32.6
75°	26.1	26.1	26.1	26.1	26.1
77.5°	21.2	21.2	19.6	21.2	19.6
80°	14.7	14.7	14.7	14.7	14.7
82.5°	11.4	11.4	11.4	11.4	11.4
85°	6.5	6.5	6.5	6.5	6.5
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)