

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: P241956

Luminaire Tested: **PRS430D010-S4M24-41SNDC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-41SNDC  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

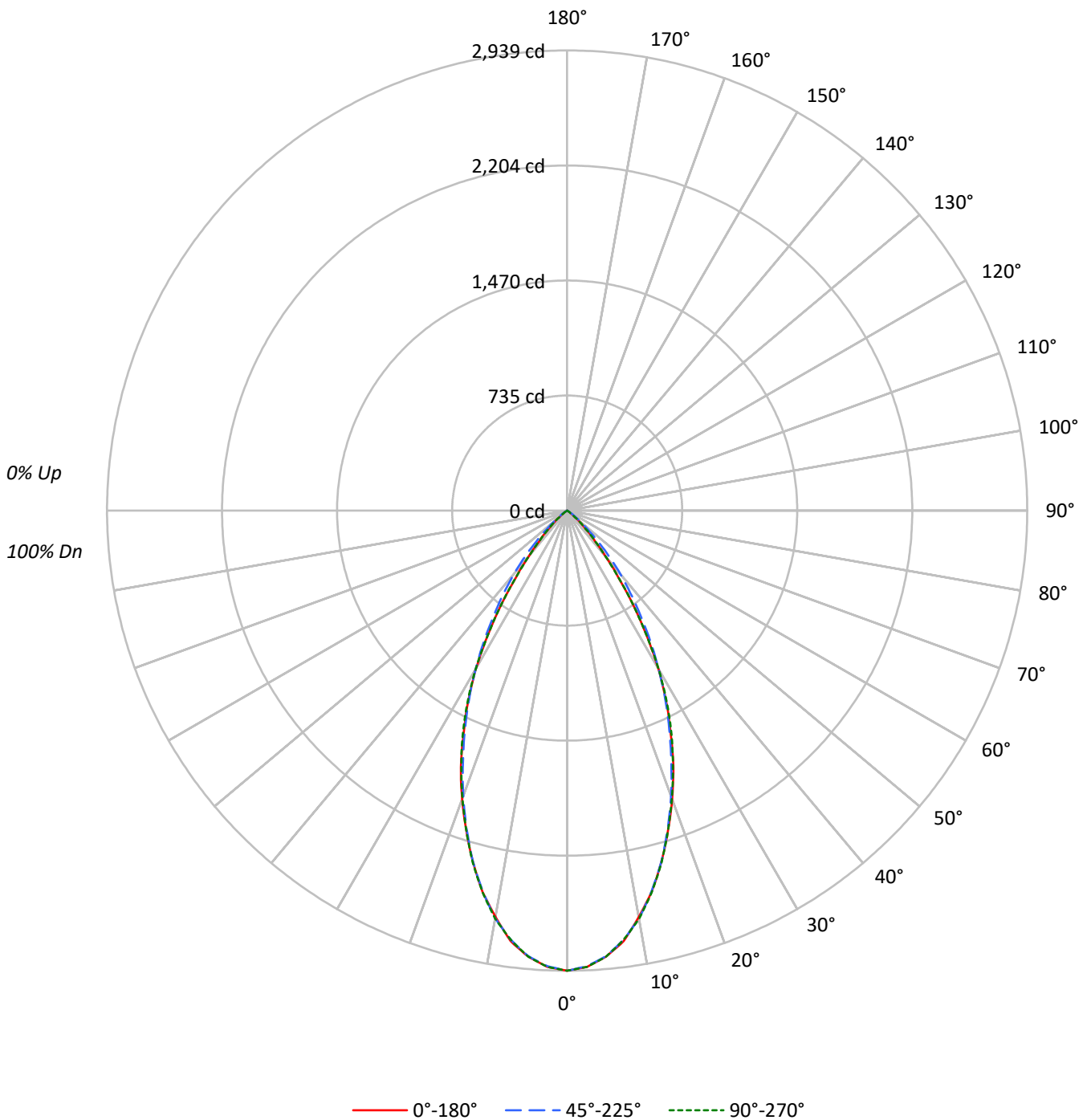
Lumens per Lamp: N/A  
Luminaire Lumens: 2317.8 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.79 / 0.83  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95				94	
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89				87	
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83				81	
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77				75	
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72				70	
6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67				66	
7	83	74	68	64	82	74	68	64	72	67	63	71	67	63	70	66	63				61	
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59				58	
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55				54	
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52				51	

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

	0°	45°	90°
0°	224953	224953	224953
5°	219735	219520	219735
10°	204881	205518	205728
15°	184233	184019	184455
20°	159816	158041	159368
25°	132056	130443	133441
30°	102747	102986	103224
35°	68587	75987	68848
40°	38449	52628	37900
45°	19496	30126	18900
50°	8121	13325	8121
55°	360	5098	360
60°	413	1255	413
65°	0	0	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°	266.0	11.5
10°-20°	645.7	27.9
20°-30°	711.5	30.7
30°-40°	485.6	21.0
40°-50°	181.0	7.8
50°-60°	27.4	1.2
60°-70°	0.7	0.0
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°	1623.2	70.0
0°-40°	2108.8	91.0
0°-60°	2317.2	100.0
0°-90°	2317.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2860	2860	2857	2857	2860	266
15°	2325	2322	2322	2322	2328	646
25°	1564	1564	1544	1566	1580	714
35°	734	778	813	780	737	459
45°	180	216	278	210	175	149
55°	3	22	38	22	3	16
65°	0	0	0	0	0	0
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°	2938.9	2938.9	2938.9	2938.9	2938.9
2.5°	2917.1	2917.1	2911.6	2911.6	2917.1
5°	2859.8	2859.8	2857.0	2857.0	2859.8
7.5°	2772.5	2767.0	2764.3	2767.0	2764.3
10°	2636.0	2638.7	2644.2	2644.2	2646.9
12.5°	2494.1	2491.4	2491.4	2496.8	2496.8
15°	2324.9	2322.2	2322.2	2322.2	2327.7
17.5°	2142.1	2142.1	2133.9	2139.4	2142.1
20°	1962.0	1953.8	1940.2	1956.5	1956.5
22.5°	1773.7	1760.1	1738.2	1762.8	1765.5
25°	1563.6	1563.6	1544.5	1566.3	1580.0
27.5°	1367.1	1356.2	1356.2	1364.4	1378.0
30°	1162.5	1165.2	1165.2	1167.9	1167.9
32.5°	941.4	971.5	987.8	971.5	941.4
35°	734.0	777.7	813.2	780.4	736.8
37.5°	534.8	597.6	663.1	594.9	537.6
40°	384.8	442.1	526.7	436.6	379.3
42.5°	262.0	313.8	395.7	305.6	262.0
45°	180.1	215.6	278.3	210.1	174.6
47.5°	117.3	144.6	180.1	141.9	117.3
50°	68.2	92.8	111.9	87.3	68.2
52.5°	32.7	51.8	65.5	51.8	32.7
55°	2.7	21.8	38.2	21.8	2.7
57.5°	2.7	2.7	19.1	2.7	2.7
60°	2.7	2.7	8.2	2.7	2.7
62.5°	0.0	0.0	2.7	0.0	0.0
65°	0.0	0.0	0.0	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)