

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: P252966

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252966  
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-S4M24-41SWDMW  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP 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: 2332.9 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

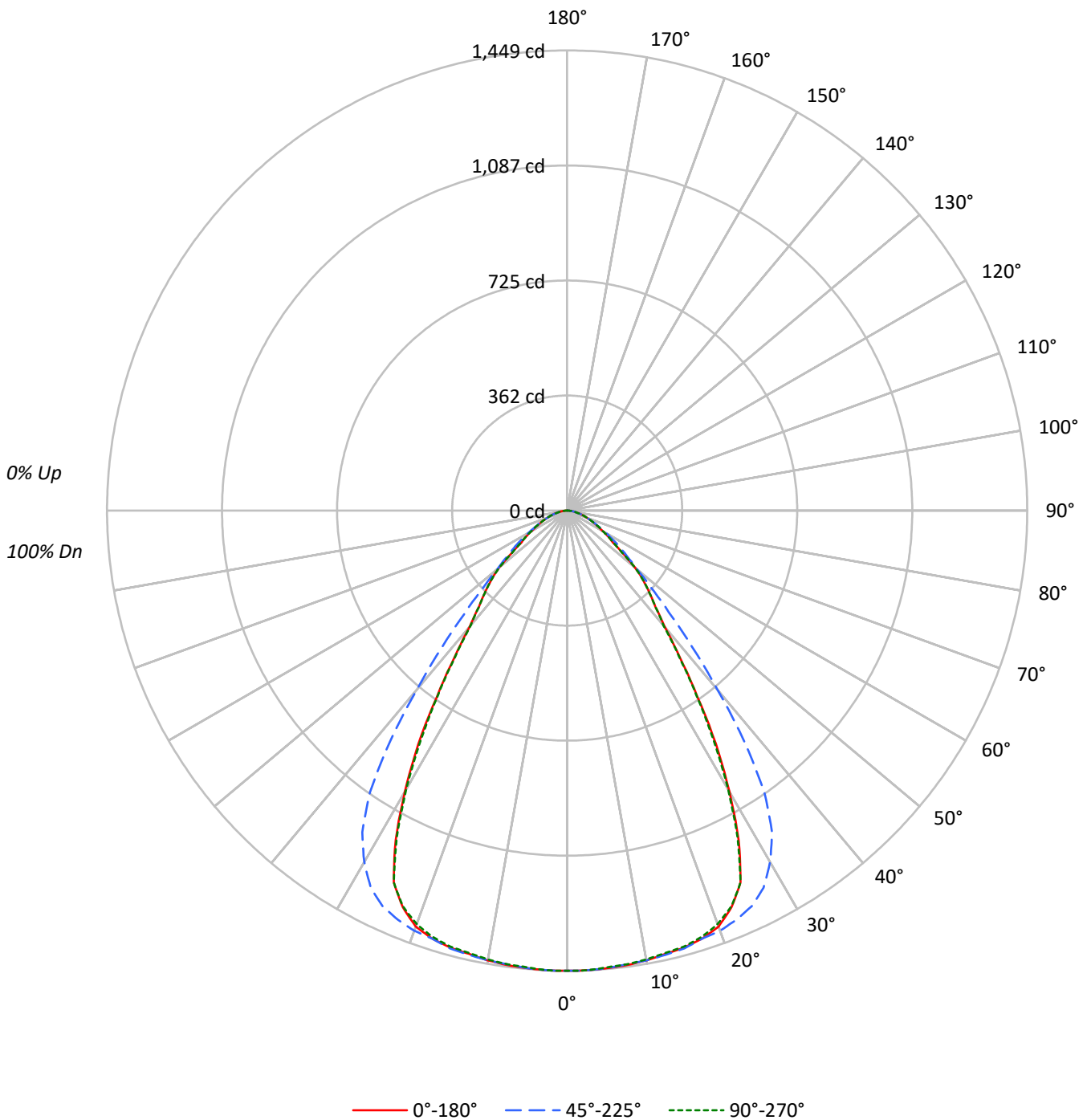
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	110919	110919	110919
5°	111135	111135	110920
10°	111775	111775	111558
15°	112867	113081	112645
20°	113541	114665	112865
25°	109101	116094	109101
30°	90267	112956	89534
35°	66802	101104	66288
40°	47712	73641	47162
45°	39738	49004	39738
50°	33200	34188	33200
55°	23580	27264	23941
60°	19855	21555	19855
65°	16989	17496	16989
70°	14815	14815	14815
75°	13072	13072	13072
80°	10932	10932	10932
85°	9661	9661	9661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	5.9
10°-20°	402.4	17.2
20°-30°	601.3	25.8
30°-40°	535.3	22.9
40°-50°	318.5	13.7
50°-60°	180.4	7.7
60°-70°	96.7	4.1
70°-80°	47.4	2.0
80°-90°	13.1	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°	1141.5	48.9
0°-40°	1676.8	71.9
0°-60°	2175.7	93.3
0°-90°	2332.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1446	1446	1446	1446	1444	138
15°	1424	1424	1427	1422	1422	402
25°	1292	1328	1375	1325	1292	576
35°	715	836	1082	834	709	452
45°	367	395	453	392	367	285
55°	177	196	204	196	179	168
65°	94	97	97	97	94	94
75°	44	44	44	44	44	48
85°	11	11	11	11	11	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1449.1	1449.1	1449.1	1449.1	1449.1
2.5°	1449.1	1449.1	1449.1	1449.1	1449.1
5°	1446.4	1446.4	1446.4	1446.4	1443.6
7.5°	1443.6	1440.8	1440.8	1440.8	1440.8
10°	1438.1	1438.1	1438.1	1435.3	1435.3
12.5°	1429.8	1429.8	1432.6	1429.8	1427.0
15°	1424.3	1424.3	1427.0	1421.5	1421.5
17.5°	1413.2	1416.0	1413.2	1413.2	1407.7
20°	1393.9	1402.2	1407.7	1399.4	1385.6
22.5°	1352.5	1374.6	1393.9	1371.8	1349.8
25°	1291.8	1327.7	1374.6	1324.9	1291.8
27.5°	1170.3	1261.4	1338.7	1253.1	1162.1
30°	1021.3	1131.7	1278.0	1123.4	1013.0
32.5°	872.2	982.6	1200.7	977.1	858.4
35°	714.9	836.4	1082.0	833.6	709.4
37.5°	582.4	692.8	916.4	687.3	576.9
40°	477.5	563.1	737.0	560.3	472.0
42.5°	411.3	458.2	582.4	455.4	411.3
45°	367.1	394.7	452.7	392.0	367.1
47.5°	325.7	347.8	356.1	345.0	325.7
50°	278.8	303.6	287.1	303.6	278.8
52.5°	220.8	251.2	240.1	253.9	218.1
55°	176.7	196.0	204.3	196.0	179.4
57.5°	154.6	160.1	171.1	160.1	154.6
60°	129.7	135.3	140.8	135.3	129.7
62.5°	110.4	115.9	115.9	115.9	113.2
65°	93.8	96.6	96.6	96.6	93.8
67.5°	80.0	80.0	80.0	80.0	80.0
70°	66.2	66.2	66.2	66.2	66.2
72.5°	55.2	55.2	55.2	55.2	55.2
75°	44.2	44.2	44.2	44.2	44.2
77.5°	35.9	35.9	33.1	35.9	33.1
80°	24.8	24.8	24.8	24.8	24.8
82.5°	19.3	19.3	19.3	19.3	19.3
85°	11.0	11.0	11.0	11.0	11.0
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)