

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: P253006

Luminaire Tested: **PRS630D010-S6M24-64SWDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SWDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.1 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

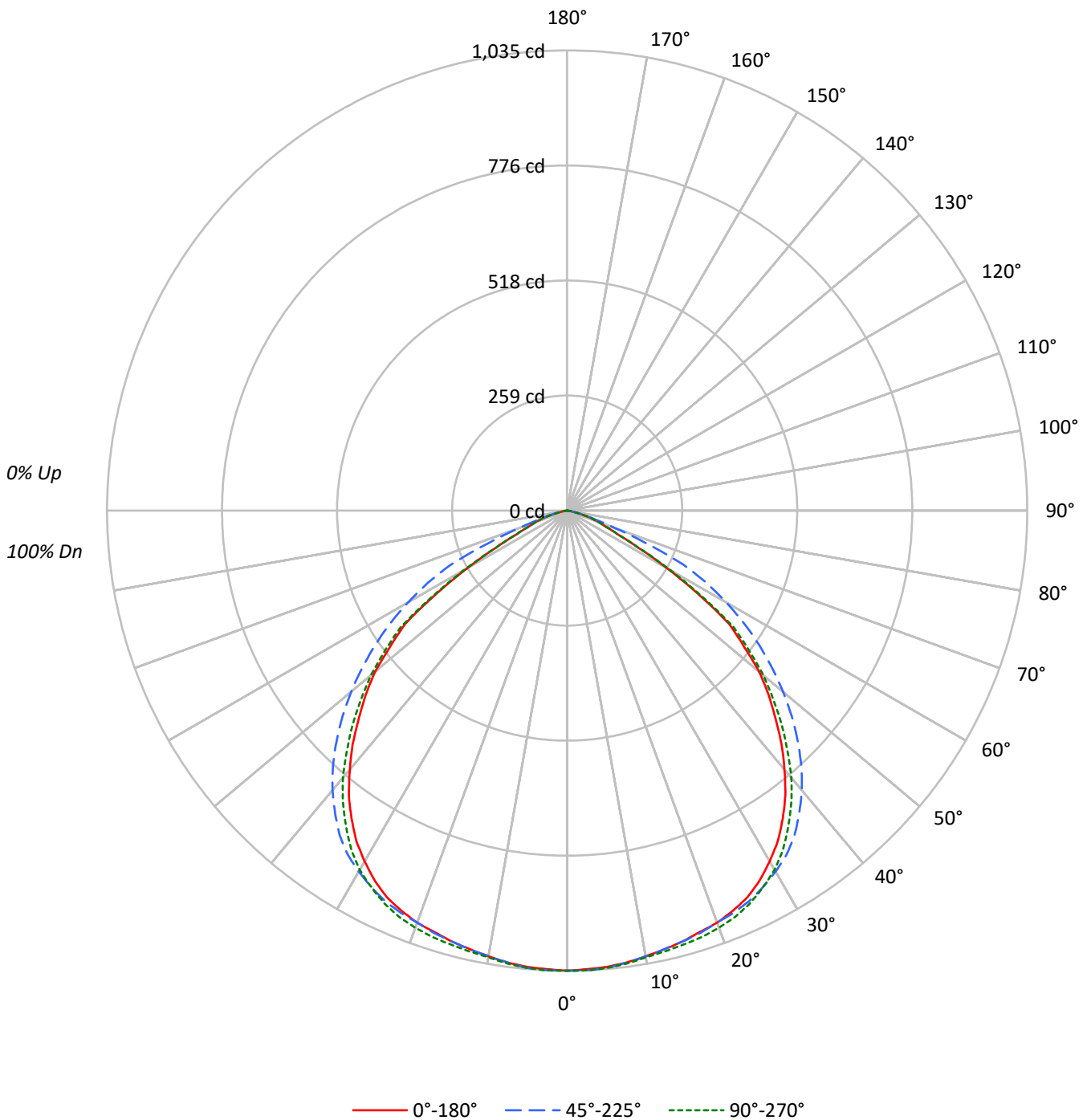
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

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

	0°	45°	90°
0°	44558	44558	44558
5°	44521	44625	44625
10°	44502	44502	44607
15°	44722	44722	45047
20°	45191	45191	45750
25°	45587	46048	46281
30°	45292	46619	46380
35°	44435	46864	45586
40°	42738	46150	44104
45°	40382	44675	41570
50°	37751	42474	38569
55°	33374	39574	34282
60°	22380	35564	23009
65°	12623	29453	12623
70°	9479	14376	9177
75°	5656	6471	6055
80°	2405	3000	2405
85°	1186	1186	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.8
10°-20°	284.4	11.0
20°-30°	445.5	17.3
30°-40°	544.3	21.1
40°-50°	541.2	21.0
50°-60°	427.3	16.6
60°-70°	191.2	7.4
70°-80°	44.6	1.7
80°-90°	4.6	0.2
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°	827.9	32.1
0°-40°	1372.3	53.2
0°-60°	2340.7	90.7
0°-90°	2581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1030	1030	1032	1032	1032	98
15°	1003	1001	1003	1006	1011	284
25°	960	962	969	972	974	441
35°	845	862	892	879	867	527
45°	663	695	734	712	683	512
55°	445	479	527	488	457	380
65°	124	163	289	165	124	139
75°	34	41	39	41	36	39
85°	2	2	2	2	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1032.5	1034.9	1034.9	1034.9	1034.9
5°	1030.1	1030.1	1032.5	1032.5	1032.5
7.5°	1025.2	1025.2	1025.2	1027.6	1027.6
10°	1017.9	1017.9	1017.9	1020.3	1020.3
12.5°	1010.6	1010.6	1010.6	1013.0	1015.5
15°	1003.3	1000.9	1003.3	1005.8	1010.6
17.5°	993.6	996.0	996.0	1000.9	1005.8
20°	986.3	986.3	986.3	993.6	998.5
22.5°	974.2	974.2	979.0	983.9	988.8
25°	959.6	962.0	969.3	971.7	974.2
27.5°	937.7	945.0	954.7	957.2	954.7
30°	911.0	920.7	937.7	935.3	932.9
32.5°	881.9	894.0	918.3	911.0	903.7
35°	845.4	862.4	891.6	879.4	867.3
37.5°	806.5	828.4	857.6	845.4	828.4
40°	760.4	787.1	821.1	804.1	784.7
42.5°	714.2	743.4	779.8	758.0	733.7
45°	663.2	694.8	733.7	711.8	682.7
47.5°	614.6	646.2	685.1	658.4	629.2
50°	563.6	592.8	634.1	604.9	575.8
52.5°	500.4	539.3	580.6	549.0	515.0
55°	444.6	478.6	527.2	488.3	456.7
57.5°	349.8	417.9	471.3	425.1	359.5
60°	259.9	325.5	413.0	335.3	267.2
62.5°	179.8	240.5	354.7	242.9	182.2
65°	123.9	162.8	289.1	165.2	123.9
67.5°	92.3	109.3	194.3	109.3	92.3
70°	75.3	80.2	114.2	80.2	72.9
72.5°	55.9	63.2	63.2	63.2	58.3
75°	34.0	41.3	38.9	41.3	36.4
77.5°	14.6	19.4	24.3	21.9	14.6
80°	9.7	9.7	12.1	9.7	9.7
82.5°	7.3	7.3	7.3	7.3	7.3
85°	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)