

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: P253101

Luminaire Tested: **PRS630D010-S6M24-61SWDMB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SWDMB  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1870.8 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

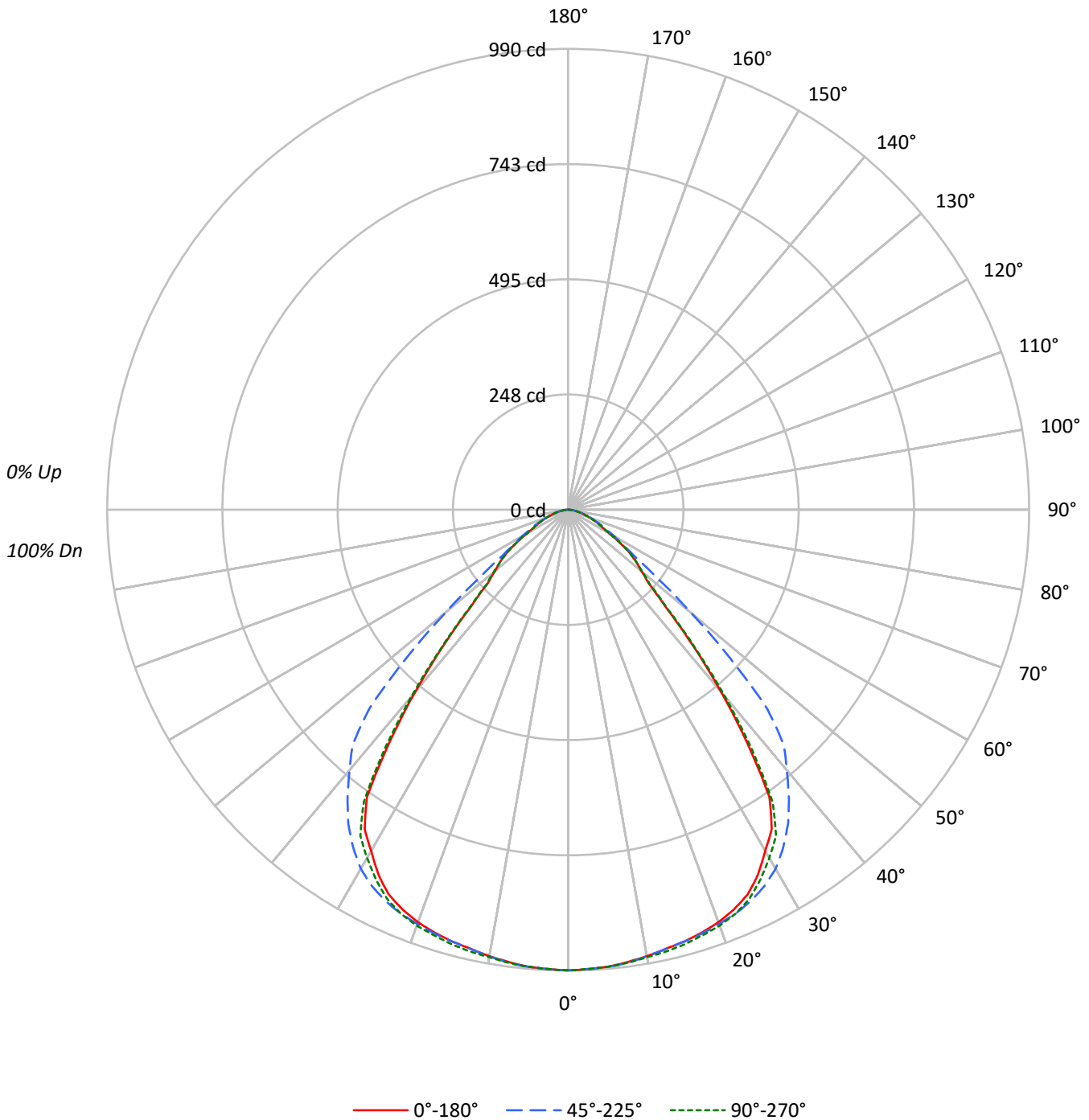
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

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

	0°	45°	90°
0°	42608	42608	42608
5°	42602	42602	42602
10°	42588	42588	42675
15°	42818	42818	43077
20°	43212	43390	43569
25°	43331	44067	43792
30°	42075	44287	42940
35°	39594	43263	40209
40°	28738	41035	29390
45°	18042	36790	18395
50°	13752	23089	14013
55°	12063	12941	12063
60°	8835	9843	8835
65°	7305	7896	7305
70°	6093	6345	6093
75°	5157	5157	5157
80°	4314	4314	4314
85°	3804	3804	3804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	5.0
10°-20°	272.2	14.6
20°-30°	423.6	22.6
30°-40°	484.1	25.9
40°-50°	323.9	17.3
50°-60°	155.0	8.3
60°-70°	75.6	4.0
70°-80°	34.0	1.8
80°-90°	8.7	0.5
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°	789.6	42.2
0°-40°	1273.7	68.1
0°-60°	1752.5	93.7
0°-90°	1870.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	986	986	986	986	986	94
15°	961	961	961	964	966	272
25°	912	918	928	926	922	418
35°	753	796	823	808	765	448
45°	296	382	604	387	302	246
55°	161	172	172	174	161	140
65°	72	74	78	74	72	72
75°	31	31	31	31	31	33
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	989.6	989.6	989.6	989.6	989.6
2.5°	987.7	987.7	987.7	987.7	987.7
5°	985.7	985.7	985.7	985.7	985.7
7.5°	979.9	979.9	981.9	979.9	981.9
10°	974.1	974.1	974.1	976.1	976.1
12.5°	966.4	966.4	966.4	970.2	972.2
15°	960.6	960.6	960.6	964.4	966.4
17.5°	952.8	952.8	954.8	958.6	958.6
20°	943.1	945.1	947.0	950.9	950.9
22.5°	929.6	933.4	939.3	941.2	939.3
25°	912.1	918.0	927.6	925.7	921.8
27.5°	883.1	896.7	912.1	904.4	894.7
30°	846.3	867.6	890.8	875.4	863.7
32.5°	813.4	830.8	859.9	842.4	830.8
35°	753.3	795.9	823.1	807.6	765.0
37.5°	631.3	726.2	778.5	737.9	646.8
40°	511.3	612.0	730.1	619.7	522.9
42.5°	397.0	493.8	685.6	501.6	404.8
45°	296.3	381.5	604.2	387.3	302.1
47.5°	234.3	282.7	470.6	288.6	238.2
50°	205.3	224.6	344.7	228.5	209.2
52.5°	184.0	195.6	240.1	197.5	184.0
55°	160.7	172.4	172.4	174.3	160.7
57.5°	129.8	147.2	135.6	147.2	131.7
60°	102.6	116.2	114.3	116.2	102.6
62.5°	83.3	91.0	93.0	91.0	83.3
65°	71.7	73.6	77.5	73.6	71.7
67.5°	60.0	62.0	62.0	62.0	58.1
70°	48.4	50.4	50.4	50.4	48.4
72.5°	38.7	40.7	40.7	40.7	38.7
75°	31.0	31.0	31.0	31.0	31.0
77.5°	23.2	25.2	23.2	25.2	23.2
80°	17.4	17.4	17.4	17.4	17.4
82.5°	11.6	11.6	11.6	11.6	11.6
85°	7.7	7.7	7.7	7.7	7.7
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)