

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: P253106

Luminaire Tested: **PRS630D010-S6M24-61SWDMB-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253106  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1784.1 lumens  
Efficiency: N/A  
Efficacy: 70.0 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

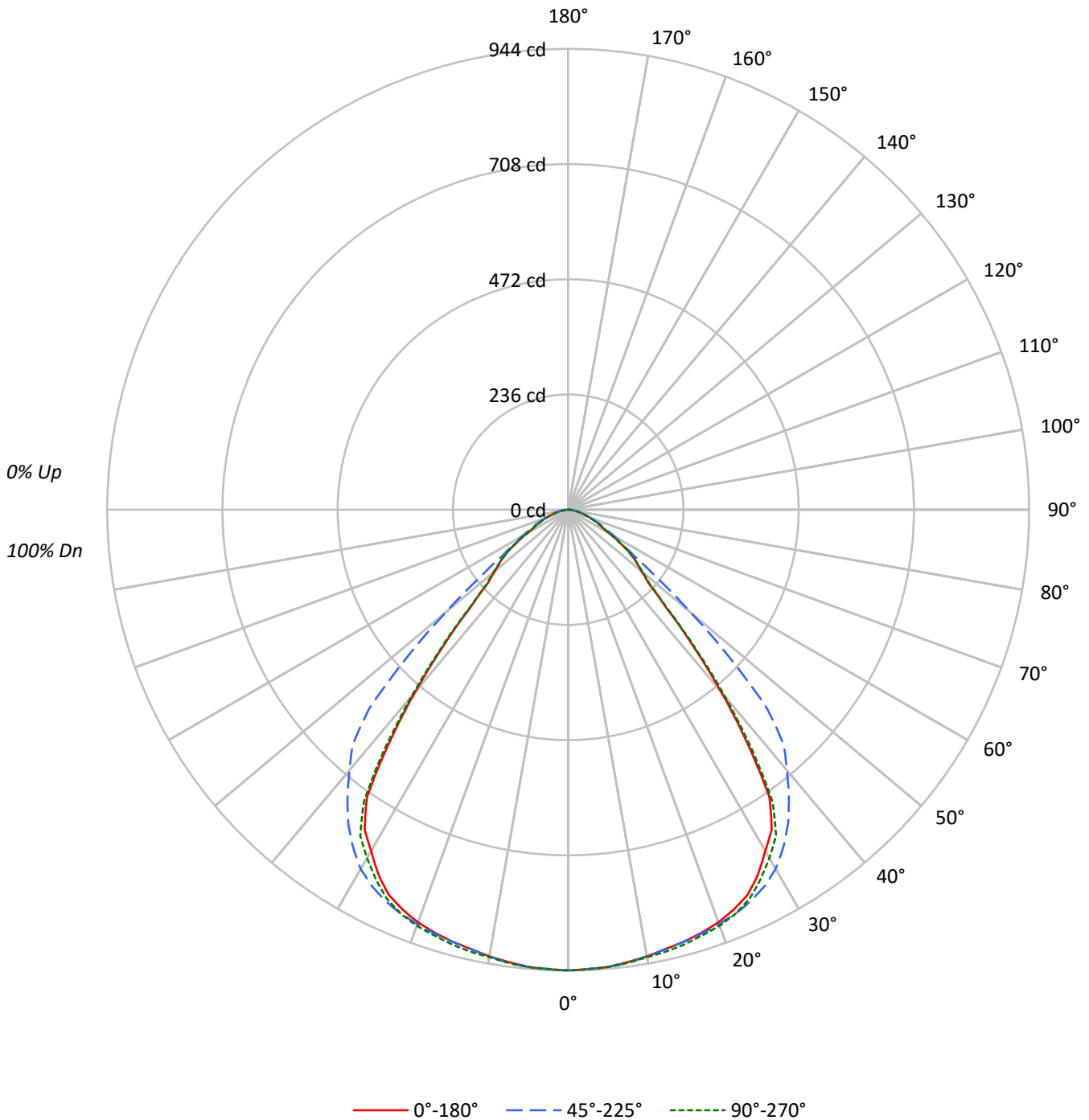
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	40632	40632	40632
5°	40627	40627	40627
10°	40616	40616	40694
15°	40830	40830	41080
20°	41209	41379	41549
25°	41326	42024	41763
30°	40126	42239	40951
35°	37760	41255	38343
40°	27406	39136	28024
45°	17207	35085	17542
50°	13115	22017	13363
55°	11508	12341	11508
60°	8430	9386	8430
65°	6958	7529	6958
70°	5816	6043	5816
75°	4907	4907	4907
80°	4116	4116	4116
85°	3656	3656	3656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	5.0
10°-20°	259.6	14.6
20°-30°	404.0	22.6
30°-40°	461.7	25.9
40°-50°	308.8	17.3
50°-60°	147.8	8.3
60°-70°	72.0	4.0
70°-80°	32.4	1.8
80°-90°	8.3	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°	753.0	42.2
0°-40°	1214.6	68.1
0°-60°	1671.3	93.7
0°-90°	1784.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	940	940	940	940	940	89
15°	916	916	916	920	922	259
25°	870	875	885	883	879	398
35°	718	759	785	770	730	427
45°	283	364	576	369	288	234
55°	153	164	164	166	153	134
65°	68	70	74	70	68	68
75°	30	30	30	30	30	32
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	943.7	943.7	943.7	943.7	943.7
2.5°	941.9	941.9	941.9	941.9	941.9
5°	940.0	940.0	940.0	940.0	940.0
7.5°	934.5	934.5	936.4	934.5	936.4
10°	929.0	929.0	929.0	930.8	930.8
12.5°	921.6	921.6	921.6	925.3	927.1
15°	916.0	916.0	916.0	919.7	921.6
17.5°	908.6	908.6	910.5	914.2	914.2
20°	899.4	901.3	903.1	906.8	906.8
22.5°	886.5	890.2	895.7	897.6	895.7
25°	869.9	875.4	884.6	882.8	879.1
27.5°	842.2	855.1	869.9	862.5	853.2
30°	807.1	827.4	849.6	834.8	823.7
32.5°	775.7	792.3	820.0	803.4	792.3
35°	718.4	759.1	784.9	770.1	729.5
37.5°	602.1	692.6	742.4	703.6	616.8
40°	487.6	583.6	696.3	591.0	498.6
42.5°	378.6	470.9	653.8	478.3	386.0
45°	282.6	363.8	576.2	369.4	288.1
47.5°	223.5	269.6	448.8	275.2	227.2
50°	195.8	214.2	328.7	217.9	199.5
52.5°	175.5	186.5	229.0	188.4	175.5
55°	153.3	164.4	164.4	166.2	153.3
57.5°	123.7	140.4	129.3	140.4	125.6
60°	97.9	110.8	109.0	110.8	97.9
62.5°	79.4	86.8	88.6	86.8	79.4
65°	68.3	70.2	73.9	70.2	68.3
67.5°	57.3	59.1	59.1	59.1	55.4
70°	46.2	48.0	48.0	48.0	46.2
72.5°	36.9	38.8	38.8	38.8	36.9
75°	29.5	29.5	29.5	29.5	29.5
77.5°	22.2	24.0	22.2	24.0	22.2
80°	16.6	16.6	16.6	16.6	16.6
82.5°	11.1	11.1	11.1	11.1	11.1
85°	7.4	7.4	7.4	7.4	7.4
87.5°	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)