

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: P253066

Luminaire Tested: **PRS630D010-S6M24-61SWDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253066  
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-S6M24-61SWDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2319.4 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

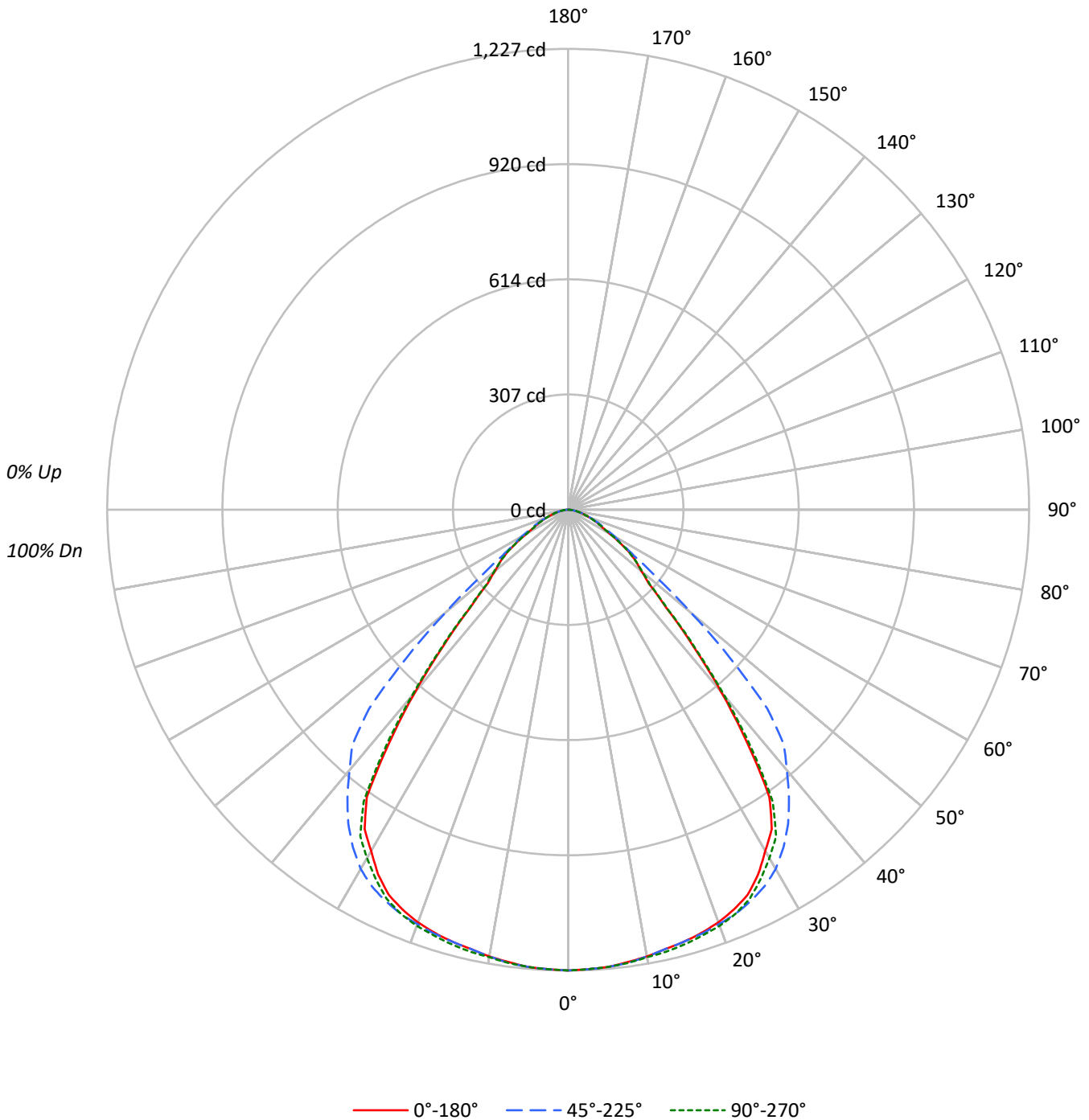
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	52825	52825	52825
5°	52819	52819	52819
10°	52800	52800	52905
15°	53084	53084	53405
20°	53576	53796	54016
25°	53725	54637	54295
30°	52167	54912	53241
35°	49092	53634	49849
40°	35628	50877	36438
45°	22371	45613	22809
50°	17047	28628	17369
55°	14961	16041	14961
60°	10962	12202	10962
65°	9047	9780	9047
70°	7553	7855	7553
75°	6388	6388	6388
80°	5356	5356	5356
85°	4742	4742	4742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	5.0
10°-20°	337.5	14.6
20°-30°	525.2	22.6
30°-40°	600.2	25.9
40°-50°	401.5	17.3
50°-60°	192.2	8.3
60°-70°	93.6	4.0
70°-80°	42.1	1.8
80°-90°	10.8	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°	978.9	42.2
0°-40°	1579.1	68.1
0°-60°	2172.8	93.7
0°-90°	2319.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1222	1222	1222	1222	1222	116
15°	1191	1191	1191	1196	1198	337
25°	1131	1138	1150	1148	1143	518
35°	934	987	1020	1001	948	555
45°	367	473	749	480	375	305
55°	199	214	214	216	199	174
65°	89	91	96	91	89	89
75°	38	38	38	38	38	41
85°	10	10	10	10	10	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1224.5	1224.5	1224.5	1224.5	1224.5
5°	1222.1	1222.1	1222.1	1222.1	1222.1
7.5°	1214.9	1214.9	1217.3	1214.9	1217.3
10°	1207.7	1207.7	1207.7	1210.1	1210.1
12.5°	1198.1	1198.1	1198.1	1202.9	1205.3
15°	1190.9	1190.9	1190.9	1195.7	1198.1
17.5°	1181.3	1181.3	1183.7	1188.5	1188.5
20°	1169.3	1171.7	1174.1	1178.9	1178.9
22.5°	1152.5	1157.3	1164.5	1166.9	1164.5
25°	1130.9	1138.1	1150.1	1147.7	1142.9
27.5°	1094.9	1111.7	1130.9	1121.3	1109.3
30°	1049.3	1075.7	1104.5	1085.3	1070.9
32.5°	1008.4	1030.0	1066.1	1044.5	1030.0
35°	934.0	986.8	1020.4	1001.2	948.4
37.5°	782.7	900.4	965.2	914.8	801.9
40°	633.9	758.7	905.2	768.3	648.3
42.5°	492.2	612.3	850.0	621.9	501.8
45°	367.4	473.0	749.1	480.2	374.6
47.5°	290.5	350.6	583.5	357.8	295.3
50°	254.5	278.5	427.4	283.3	259.3
52.5°	228.1	242.5	297.7	244.9	228.1
55°	199.3	213.7	213.7	216.1	199.3
57.5°	160.9	182.5	168.1	182.5	163.3
60°	127.3	144.1	141.7	144.1	127.3
62.5°	103.2	112.8	115.2	112.8	103.2
65°	88.8	91.2	96.0	91.2	88.8
67.5°	74.4	76.8	76.8	76.8	72.0
70°	60.0	62.4	62.4	62.4	60.0
72.5°	48.0	50.4	50.4	50.4	48.0
75°	38.4	38.4	38.4	38.4	38.4
77.5°	28.8	31.2	28.8	31.2	28.8
80°	21.6	21.6	21.6	21.6	21.6
82.5°	14.4	14.4	14.4	14.4	14.4
85°	9.6	9.6	9.6	9.6	9.6
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)