

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: P253071

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253071  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2570.6 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

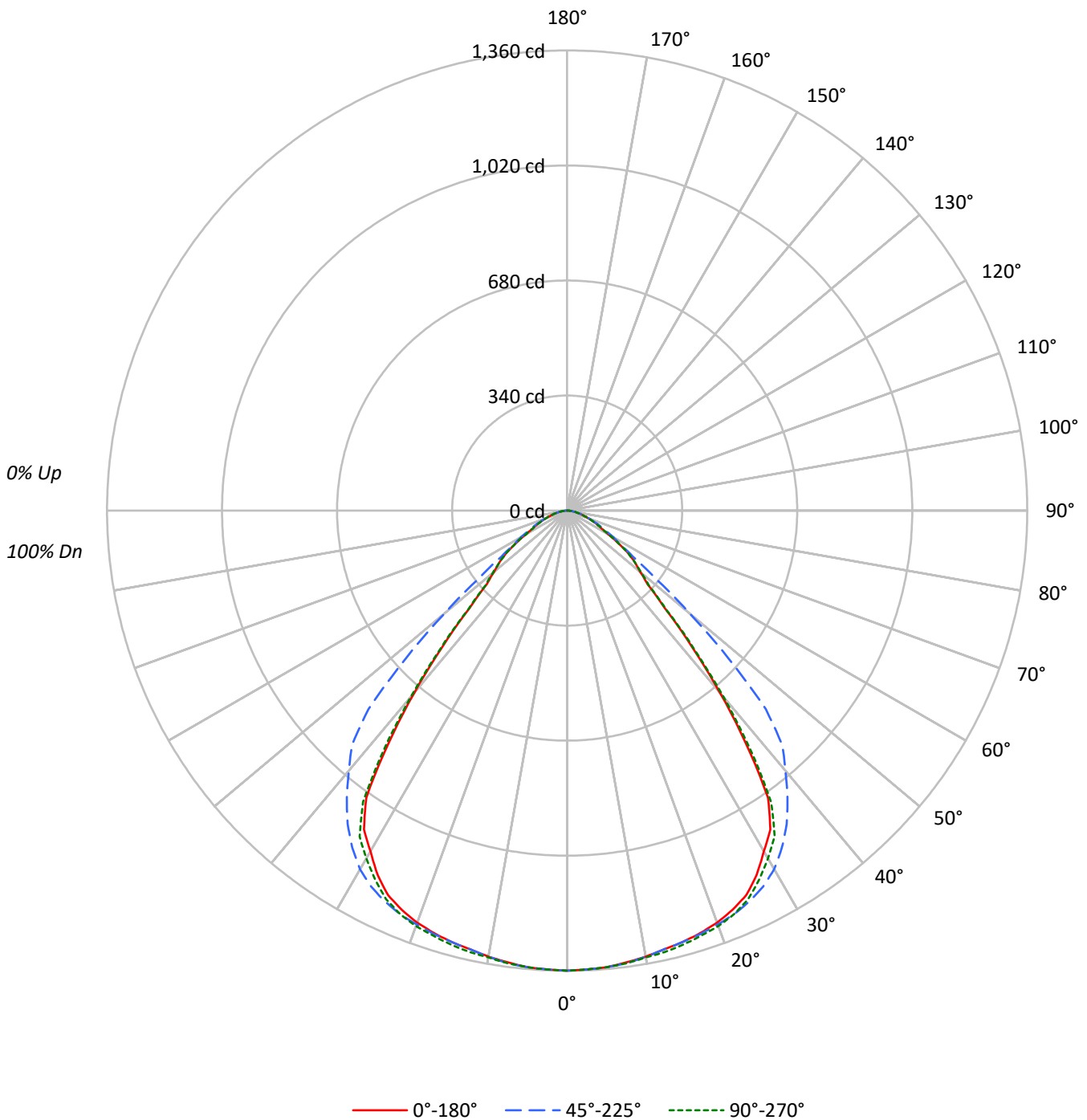
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	58547	58547	58547
5°	58542	58542	58542
10°	58519	58519	58637
15°	58834	58834	59190
20°	59381	59624	59867
25°	59545	60557	60177
30°	57815	60858	59008
35°	54411	59447	55247
40°	39484	56385	40383
45°	24794	50557	25275
50°	18896	31730	19251
55°	16582	17775	16582
60°	12142	13519	12142
65°	10035	10840	10035
70°	8371	8711	8371
75°	7087	7087	7087
80°	5951	5951	5951
85°	5236	5236	5236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	5.0
10°-20°	374.1	14.6
20°-30°	582.1	22.6
30°-40°	665.2	25.9
40°-50°	445.0	17.3
50°-60°	213.0	8.3
60°-70°	103.8	4.0
70°-80°	46.7	1.8
80°-90°	11.9	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°	1085.0	42.2
0°-40°	1750.2	68.1
0°-60°	2408.2	93.7
0°-90°	2570.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1354	1354	1354	1354	1354	129
15°	1320	1320	1320	1325	1328	373
25°	1253	1261	1275	1272	1267	574
35°	1035	1094	1131	1110	1051	615
45°	407	524	830	532	415	338
55°	221	237	237	240	221	192
65°	98	101	106	101	98	99
75°	43	43	43	43	43	46
85°	11	11	11	11	11	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1359.8	1359.8	1359.8	1359.8	1359.8
2.5°	1357.2	1357.2	1357.2	1357.2	1357.2
5°	1354.5	1354.5	1354.5	1354.5	1354.5
7.5°	1346.5	1346.5	1349.2	1346.5	1349.2
10°	1338.5	1338.5	1338.5	1341.2	1341.2
12.5°	1327.9	1327.9	1327.9	1333.2	1335.9
15°	1319.9	1319.9	1319.9	1325.2	1327.9
17.5°	1309.3	1309.3	1311.9	1317.3	1317.3
20°	1296.0	1298.6	1301.3	1306.6	1306.6
22.5°	1277.3	1282.7	1290.6	1293.3	1290.6
25°	1253.4	1261.4	1274.7	1272.0	1266.7
27.5°	1213.5	1232.1	1253.4	1242.7	1229.4
30°	1162.9	1192.2	1224.1	1202.8	1186.9
32.5°	1117.7	1141.6	1181.5	1157.6	1141.6
35°	1035.2	1093.7	1131.0	1109.7	1051.1
37.5°	867.5	997.9	1069.8	1013.9	888.8
40°	702.5	840.9	1003.2	851.6	718.5
42.5°	545.5	678.6	942.0	689.2	556.2
45°	407.2	524.2	830.3	532.2	415.1
47.5°	322.0	388.5	646.7	396.5	327.3
50°	282.1	308.7	473.7	314.0	287.4
52.5°	252.8	268.8	330.0	271.4	252.8
55°	220.9	236.8	236.8	239.5	220.9
57.5°	178.3	202.2	186.3	202.2	181.0
60°	141.0	159.7	157.0	159.7	141.0
62.5°	114.4	125.1	127.7	125.1	114.4
65°	98.5	101.1	106.4	101.1	98.5
67.5°	82.5	85.2	85.2	85.2	79.8
70°	66.5	69.2	69.2	69.2	66.5
72.5°	53.2	55.9	55.9	55.9	53.2
75°	42.6	42.6	42.6	42.6	42.6
77.5°	31.9	34.6	31.9	34.6	31.9
80°	24.0	24.0	24.0	24.0	24.0
82.5°	16.0	16.0	16.0	16.0	16.0
85°	10.6	10.6	10.6	10.6	10.6
87.5°	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)