

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: P253076

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253076  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.5 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

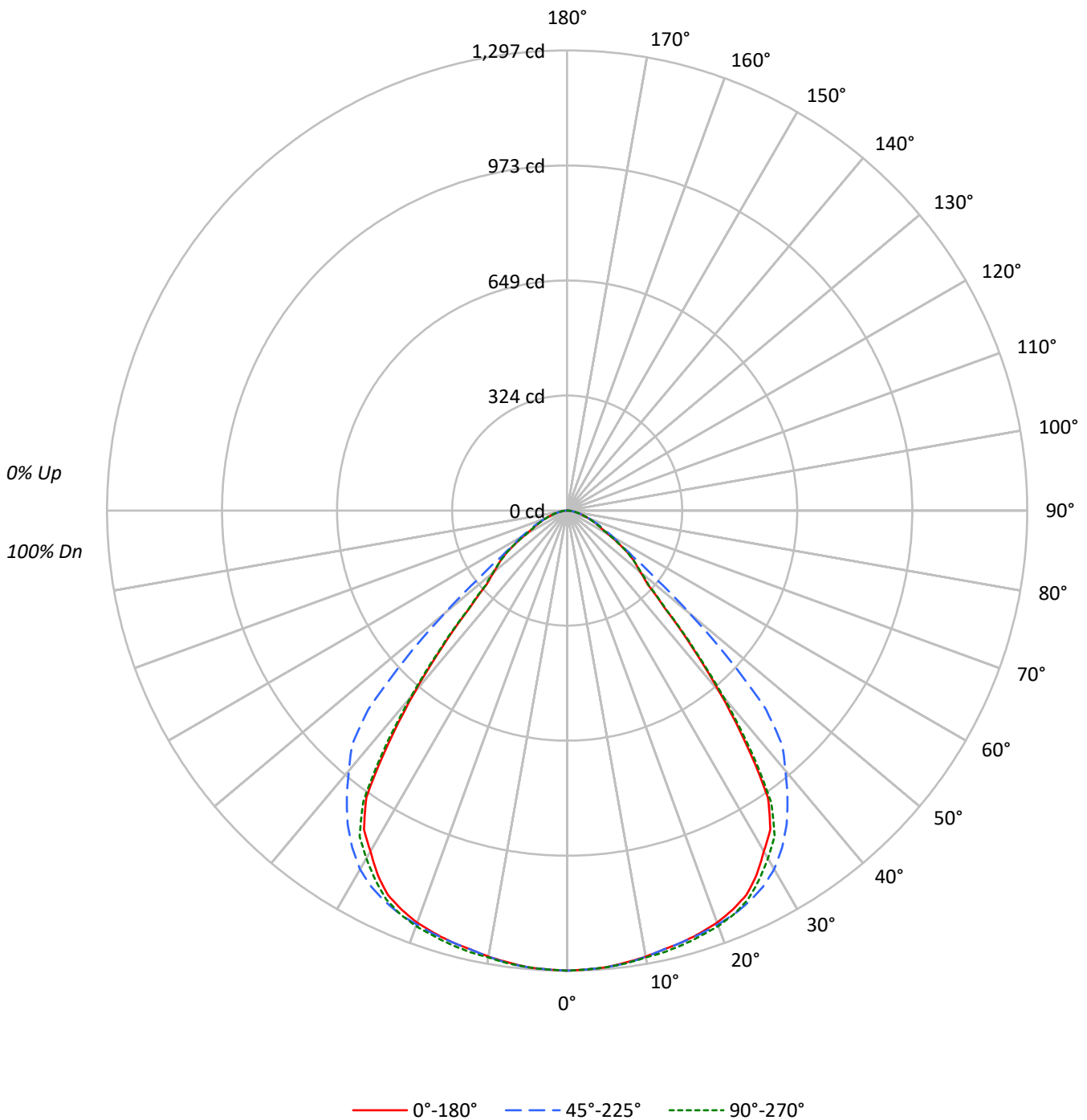
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	55835	55835	55835
5°	55827	55827	55827
10°	55808	55808	55918
15°	56106	56106	56445
20°	56628	56861	57090
25°	56785	57749	57388
30°	55135	58039	56269
35°	51888	56693	52687
40°	37657	53771	38512
45°	23644	48213	24106
50°	18018	30256	18360
55°	15809	16957	15809
60°	11582	12891	11582
65°	9566	10341	9566
70°	7981	8308	7981
75°	6754	6754	6754
80°	5653	5653	5653
85°	5039	5039	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	5.0
10°-20°	356.7	14.6
20°-30°	555.1	22.6
30°-40°	634.4	25.9
40°-50°	424.4	17.3
50°-60°	203.1	8.3
60°-70°	99.0	4.0
70°-80°	44.6	1.8
80°-90°	11.4	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°	1034.7	42.2
0°-40°	1669.0	68.1
0°-60°	2296.6	93.7
0°-90°	2451.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1292	1292	1292	1292	1292	123
15°	1259	1259	1259	1264	1266	356
25°	1195	1203	1216	1213	1208	547
35°	987	1043	1079	1058	1002	587
45°	388	500	792	508	396	322
55°	211	226	226	228	211	184
65°	94	96	102	96	94	94
75°	41	41	41	41	41	43
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°	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1294.3	1294.3	1294.3	1294.3	1294.3
5°	1291.7	1291.7	1291.7	1291.7	1291.7
7.5°	1284.1	1284.1	1286.7	1284.1	1286.7
10°	1276.5	1276.5	1276.5	1279.0	1279.0
12.5°	1266.3	1266.3	1266.3	1271.4	1274.0
15°	1258.7	1258.7	1258.7	1263.8	1266.3
17.5°	1248.6	1248.6	1251.1	1256.2	1256.2
20°	1235.9	1238.4	1241.0	1246.0	1246.0
22.5°	1218.1	1223.2	1230.8	1233.4	1230.8
25°	1195.3	1202.9	1215.6	1213.1	1208.0
27.5°	1157.2	1175.0	1195.3	1185.1	1172.5
30°	1109.0	1136.9	1167.4	1147.1	1131.8
32.5°	1065.9	1088.7	1126.8	1103.9	1088.7
35°	987.2	1043.0	1078.6	1058.3	1002.4
37.5°	827.3	951.7	1020.2	966.9	847.6
40°	670.0	801.9	956.7	812.1	685.2
42.5°	520.2	647.1	898.4	657.3	530.4
45°	388.3	499.9	791.8	507.6	395.9
47.5°	307.1	370.5	616.7	378.1	312.1
50°	269.0	294.4	451.7	299.5	274.1
52.5°	241.1	256.3	314.7	258.9	241.1
55°	210.6	225.9	225.9	228.4	210.6
57.5°	170.0	192.9	177.6	192.9	172.6
60°	134.5	152.3	149.7	152.3	134.5
62.5°	109.1	119.3	121.8	119.3	109.1
65°	93.9	96.4	101.5	96.4	93.9
67.5°	78.7	81.2	81.2	81.2	76.1
70°	63.4	66.0	66.0	66.0	63.4
72.5°	50.8	53.3	53.3	53.3	50.8
75°	40.6	40.6	40.6	40.6	40.6
77.5°	30.5	33.0	30.5	33.0	30.5
80°	22.8	22.8	22.8	22.8	22.8
82.5°	15.2	15.2	15.2	15.2	15.2
85°	10.2	10.2	10.2	10.2	10.2
87.5°	5.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)