

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: P253091

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253091  
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-S6M24-61SWDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2550.5 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

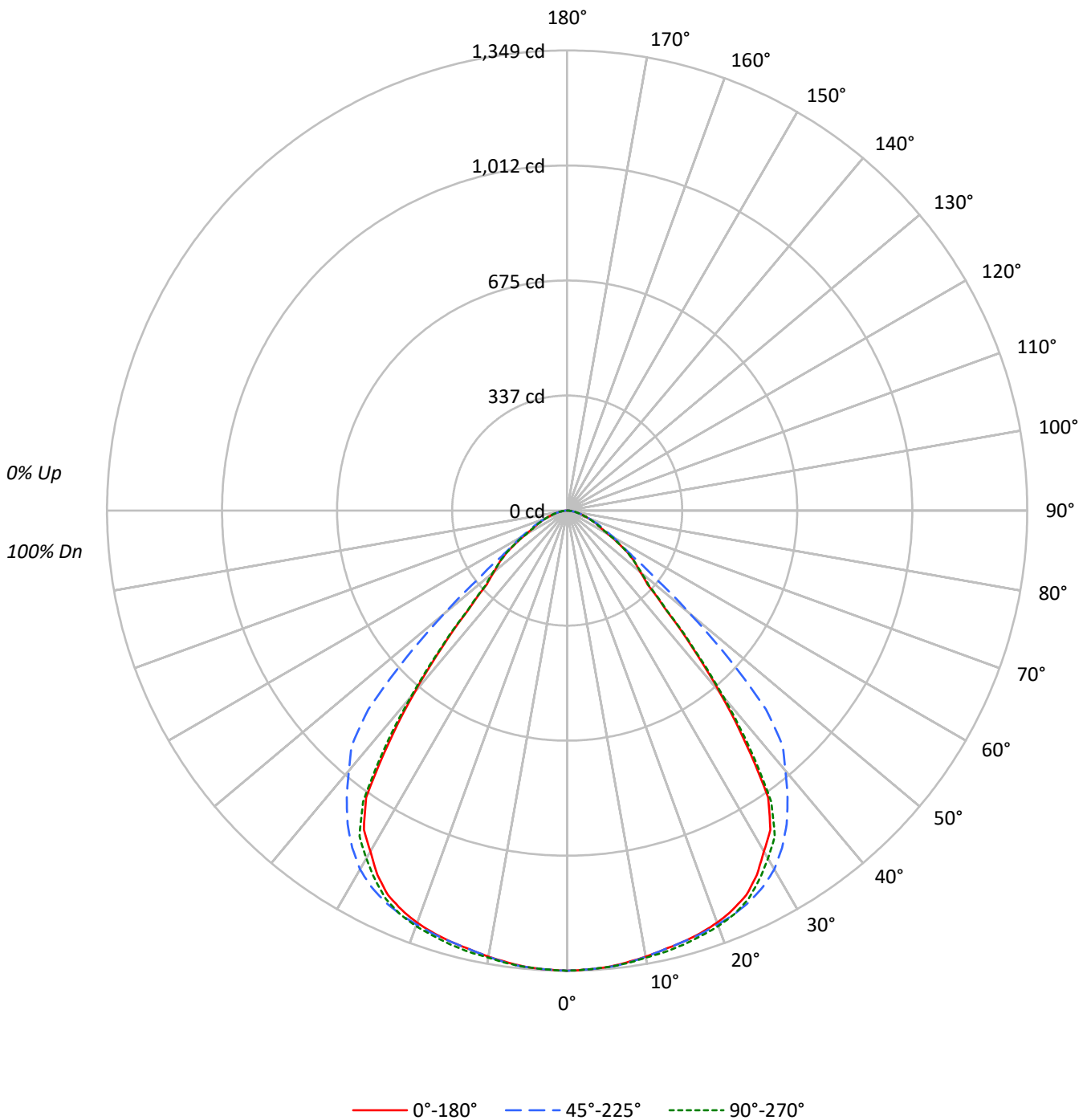
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	58091	58091	58091
5°	58084	58084	58084
10°	58060	58060	58178
15°	58375	58375	58727
20°	58914	59157	59400
25°	59075	60082	59706
30°	57363	60381	58541
35°	53980	58979	54816
40°	39175	55947	40069
45°	24600	50161	25081
50°	18748	31482	19097
55°	16447	17640	16447
60°	12047	13416	12047
65°	9954	10758	9954
70°	8308	8636	8308
75°	7020	7020	7020
80°	5901	5901	5901
85°	5236	5236	5236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	5.0
10°-20°	371.2	14.6
20°-30°	577.5	22.6
30°-40°	660.0	25.9
40°-50°	441.5	17.3
50°-60°	211.3	8.3
60°-70°	103.0	4.0
70°-80°	46.3	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°	1076.5	42.2
0°-40°	1736.4	68.1
0°-60°	2389.3	93.7
0°-90°	2550.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1344	1344	1344	1344	1344	128
15°	1310	1310	1310	1315	1318	370
25°	1244	1252	1265	1262	1257	569
35°	1027	1085	1122	1101	1043	610
45°	404	520	824	528	412	335
55°	219	235	235	238	219	191
65°	98	100	106	100	98	98
75°	42	42	42	42	42	45
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°	1349.2	1349.2	1349.2	1349.2	1349.2
2.5°	1346.5	1346.5	1346.5	1346.5	1346.5
5°	1343.9	1343.9	1343.9	1343.9	1343.9
7.5°	1336.0	1336.0	1338.6	1336.0	1338.6
10°	1328.0	1328.0	1328.0	1330.7	1330.7
12.5°	1317.5	1317.5	1317.5	1322.8	1325.4
15°	1309.6	1309.6	1309.6	1314.8	1317.5
17.5°	1299.0	1299.0	1301.6	1306.9	1306.9
20°	1285.8	1288.4	1291.1	1296.4	1296.4
22.5°	1267.3	1272.6	1280.5	1283.2	1280.5
25°	1243.5	1251.5	1264.7	1262.0	1256.8
27.5°	1203.9	1222.4	1243.5	1233.0	1219.8
30°	1153.8	1182.8	1214.5	1193.4	1177.5
32.5°	1108.9	1132.7	1172.3	1148.5	1132.7
35°	1027.0	1085.1	1122.1	1101.0	1042.9
37.5°	860.7	990.1	1061.4	1005.9	881.8
40°	697.0	834.3	995.4	844.9	712.9
42.5°	541.2	673.3	934.6	683.8	551.8
45°	404.0	520.1	823.8	528.0	411.9
47.5°	319.5	385.5	641.6	393.4	324.7
50°	279.9	306.3	470.0	311.5	285.1
52.5°	250.8	266.7	327.4	269.3	250.8
55°	219.1	235.0	235.0	237.6	219.1
57.5°	176.9	200.7	184.8	200.7	179.5
60°	139.9	158.4	155.8	158.4	139.9
62.5°	113.5	124.1	126.7	124.1	113.5
65°	97.7	100.3	105.6	100.3	97.7
67.5°	81.8	84.5	84.5	84.5	79.2
70°	66.0	68.6	68.6	68.6	66.0
72.5°	52.8	55.4	55.4	55.4	52.8
75°	42.2	42.2	42.2	42.2	42.2
77.5°	31.7	34.3	31.7	34.3	31.7
80°	23.8	23.8	23.8	23.8	23.8
82.5°	15.8	15.8	15.8	15.8	15.8
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)