

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: P253051

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253051
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-S6M24-61SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422.7 lumens
Efficiency: N/A
Efficacy: 95.0 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

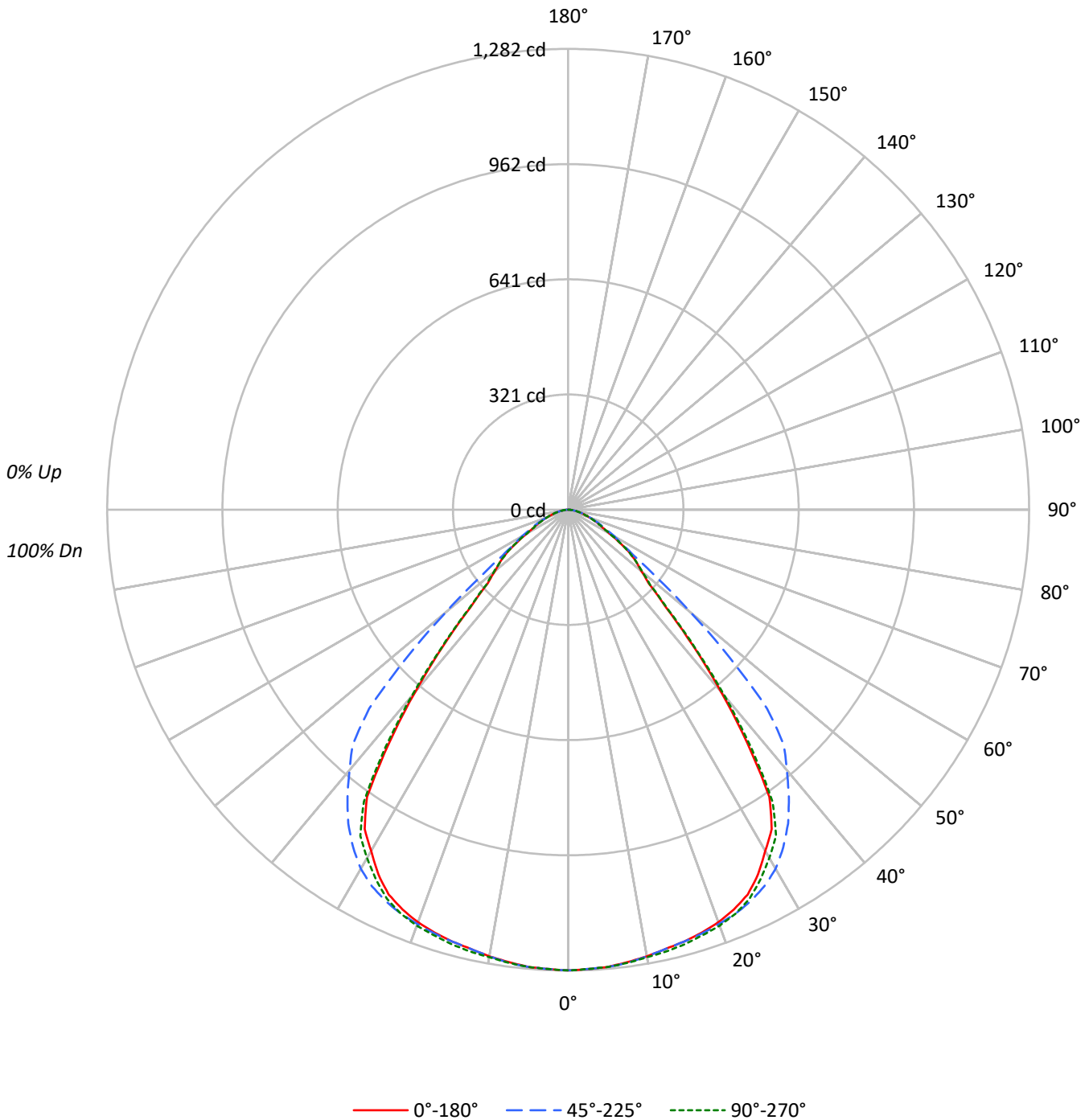
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	55176	55176	55176
5°	55170	55170	55170
10°	55153	55153	55262
15°	55446	55446	55781
20°	55963	56192	56421
25°	56115	57070	56713
30°	54489	57353	55608
35°	51279	56025	52067
40°	37213	53142	38057
45°	23363	47646	23820
50°	17804	29901	18146
55°	15629	16755	15629
60°	11444	12744	11444
65°	9454	10218	9454
70°	7893	8208	7893
75°	6671	6671	6671
80°	5604	5604	5604
85°	4940	4940	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	5.0
10°-20°	352.5	14.6
20°-30°	548.6	22.6
30°-40°	626.9	25.9
40°-50°	419.4	17.3
50°-60°	200.7	8.3
60°-70°	97.8	4.0
70°-80°	44.0	1.8
80°-90°	11.2	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°	1022.5	42.2
0°-40°	1649.4	68.1
0°-60°	2269.5	93.7
0°-90°	2422.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1276	1276	1276	1276	1276	121
15°	1244	1244	1244	1249	1251	352
25°	1181	1189	1201	1199	1194	541
35°	976	1031	1066	1046	991	580
45°	384	494	782	502	391	318
55°	208	223	223	226	208	181
65°	93	95	100	95	93	93
75°	40	40	40	40	40	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°	1281.5	1281.5	1281.5	1281.5	1281.5
2.5°	1279.0	1279.0	1279.0	1279.0	1279.0
5°	1276.5	1276.5	1276.5	1276.5	1276.5
7.5°	1269.0	1269.0	1271.5	1269.0	1271.5
10°	1261.5	1261.5	1261.5	1264.0	1264.0
12.5°	1251.4	1251.4	1251.4	1256.5	1259.0
15°	1243.9	1243.9	1243.9	1248.9	1251.4
17.5°	1233.9	1233.9	1236.4	1241.4	1241.4
20°	1221.4	1223.9	1226.4	1231.4	1231.4
22.5°	1203.8	1208.8	1216.3	1218.8	1216.3
25°	1181.2	1188.8	1201.3	1198.8	1193.8
27.5°	1143.6	1161.2	1181.2	1171.2	1158.7
30°	1096.0	1123.5	1153.6	1133.6	1118.5
32.5°	1053.3	1075.9	1113.5	1090.9	1075.9
35°	975.6	1030.8	1065.9	1045.8	990.6
37.5°	817.6	940.5	1008.2	955.5	837.6
40°	662.1	792.5	945.5	802.5	677.1
42.5°	514.1	639.5	887.8	649.6	524.2
45°	383.7	494.1	782.5	501.6	391.2
47.5°	303.5	366.2	609.4	373.7	308.5
50°	265.8	290.9	446.4	295.9	270.9
52.5°	238.3	253.3	311.0	255.8	238.3
55°	208.2	223.2	223.2	225.7	208.2
57.5°	168.0	190.6	175.6	190.6	170.5
60°	132.9	150.5	148.0	150.5	132.9
62.5°	107.8	117.9	120.4	117.9	107.8
65°	92.8	95.3	100.3	95.3	92.8
67.5°	77.7	80.3	80.3	80.3	75.2
70°	62.7	65.2	65.2	65.2	62.7
72.5°	50.2	52.7	52.7	52.7	50.2
75°	40.1	40.1	40.1	40.1	40.1
77.5°	30.1	32.6	30.1	32.6	30.1
80°	22.6	22.6	22.6	22.6	22.6
82.5°	15.0	15.0	15.0	15.0	15.0
85°	10.0	10.0	10.0	10.0	10.0
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)