

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: P253061

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253061
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2560.6 lumens
Efficiency: N/A
Efficacy: 100.4 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

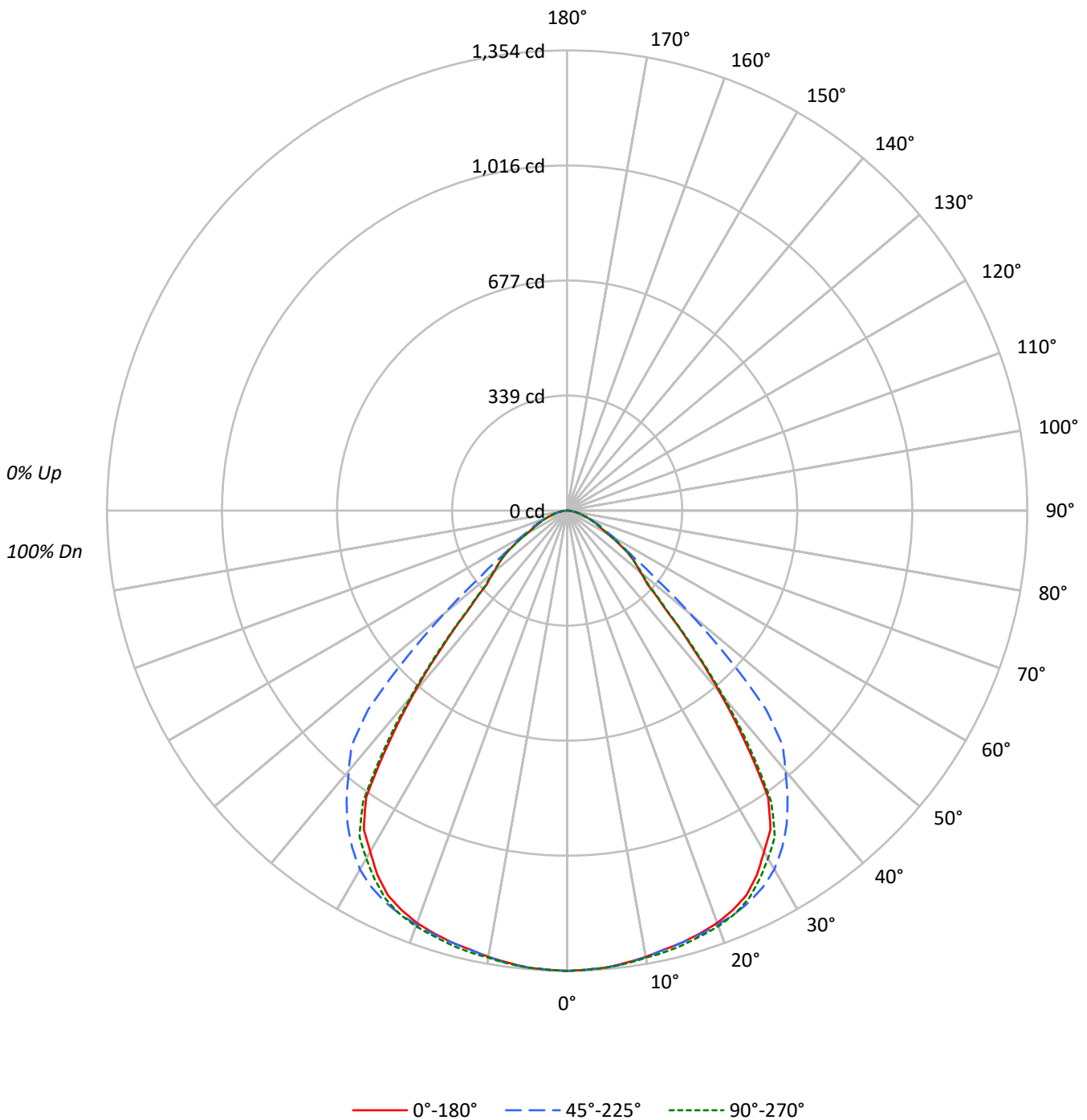
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	58319	58319	58319
5°	58313	58313	58313
10°	58292	58292	58410
15°	58607	58607	58959
20°	59148	59390	59633
25°	59312	60319	59944
30°	57591	60619	58775
35°	54196	59216	55032
40°	39332	56166	40226
45°	24697	50356	25178
50°	18822	31602	19177
55°	16514	17708	16514
60°	12099	13468	12099
65°	9994	10799	9994
70°	8346	8674	8346
75°	7053	7053	7053
80°	5926	5926	5926
85°	5236	5236	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	5.0
10°-20°	372.6	14.6
20°-30°	579.8	22.6
30°-40°	662.6	25.9
40°-50°	443.3	17.3
50°-60°	212.2	8.3
60°-70°	103.4	4.0
70°-80°	46.5	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°	1080.7	42.2
0°-40°	1743.3	68.1
0°-60°	2398.8	93.7
0°-90°	2560.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1349	1349	1349	1349	1349	128
15°	1315	1315	1315	1320	1323	372
25°	1248	1256	1270	1267	1262	572
35°	1031	1090	1127	1105	1047	613
45°	406	522	827	530	414	336
55°	220	236	236	239	220	192
65°	98	101	106	101	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°	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1351.9	1351.9	1351.9	1351.9	1351.9
5°	1349.2	1349.2	1349.2	1349.2	1349.2
7.5°	1341.3	1341.3	1343.9	1341.3	1343.9
10°	1333.3	1333.3	1333.3	1336.0	1336.0
12.5°	1322.7	1322.7	1322.7	1328.0	1330.7
15°	1314.8	1314.8	1314.8	1320.1	1322.7
17.5°	1304.2	1304.2	1306.8	1312.1	1312.1
20°	1290.9	1293.6	1296.2	1301.5	1301.5
22.5°	1272.4	1277.7	1285.6	1288.3	1285.6
25°	1248.5	1256.5	1269.7	1267.1	1261.8
27.5°	1208.7	1227.3	1248.5	1237.9	1224.6
30°	1158.4	1187.5	1219.3	1198.1	1182.2
32.5°	1113.3	1137.2	1176.9	1153.1	1137.2
35°	1031.1	1089.5	1126.6	1105.4	1047.0
37.5°	864.1	994.0	1065.6	1009.9	885.3
40°	699.8	837.6	999.3	848.2	715.7
42.5°	543.4	675.9	938.4	686.5	554.0
45°	405.6	522.2	827.0	530.1	413.5
47.5°	320.7	387.0	644.1	395.0	326.0
50°	281.0	307.5	471.8	312.8	286.3
52.5°	251.8	267.7	328.7	270.4	251.8
55°	220.0	235.9	235.9	238.6	220.0
57.5°	177.6	201.5	185.6	201.5	180.3
60°	140.5	159.0	156.4	159.0	140.5
62.5°	114.0	124.6	127.2	124.6	114.0
65°	98.1	100.7	106.0	100.7	98.1
67.5°	82.2	84.8	84.8	84.8	79.5
70°	66.3	68.9	68.9	68.9	66.3
72.5°	53.0	55.7	55.7	55.7	53.0
75°	42.4	42.4	42.4	42.4	42.4
77.5°	31.8	34.5	31.8	34.5	31.8
80°	23.9	23.9	23.9	23.9	23.9
82.5°	15.9	15.9	15.9	15.9	15.9
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)