

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: P253056

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253056
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685.1 lumens
Efficiency: N/A
Efficacy: 105.3 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

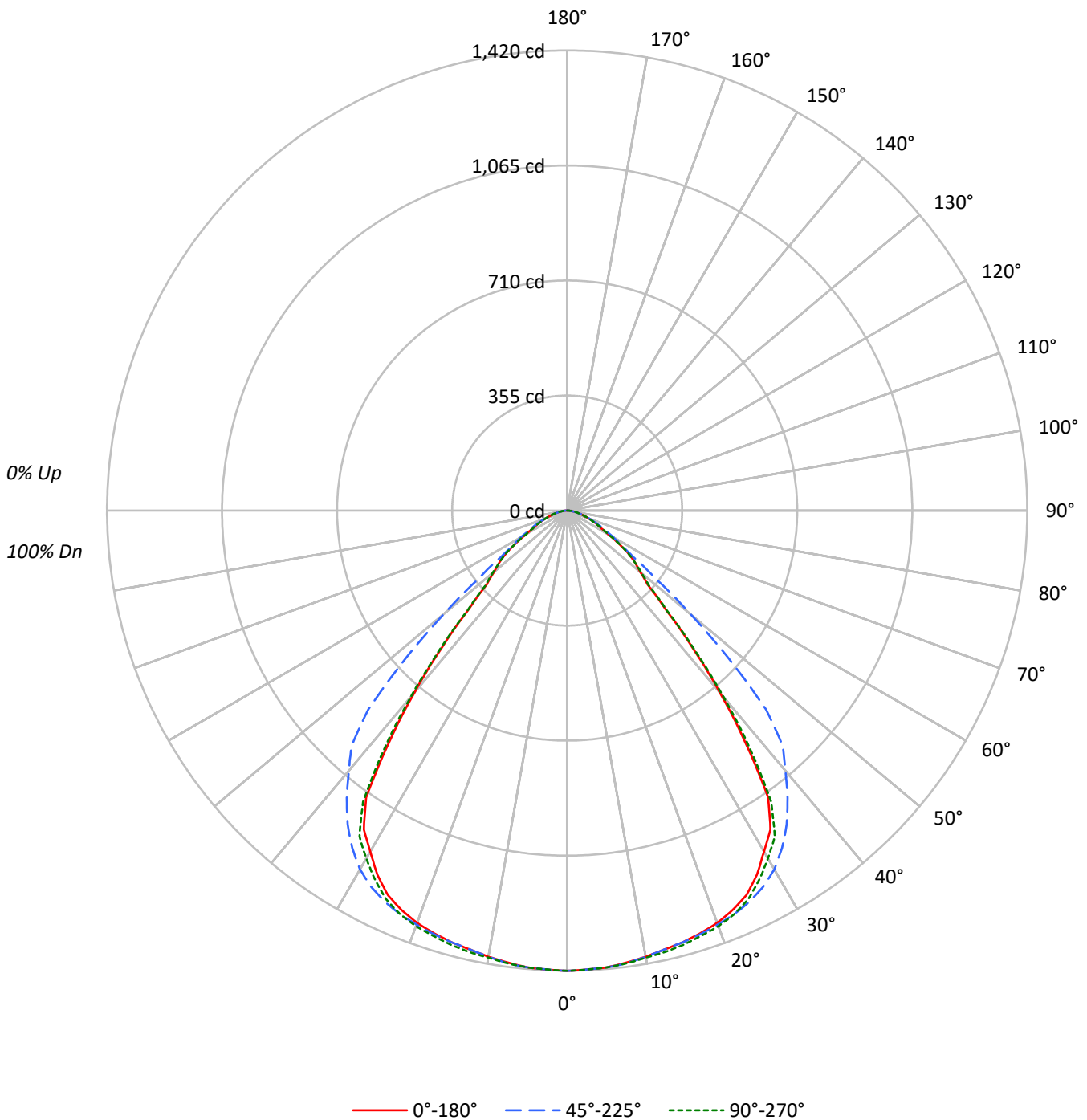
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61156	61156	61156
5°	61148	61148	61148
10°	61125	61125	61247
15°	61455	61455	61825
20°	62025	62277	62534
25°	62196	63250	62856
30°	60391	63567	61633
35°	56834	62091	57707
40°	41243	58897	42182
45°	25896	52804	26402
50°	19733	33143	20108
55°	17318	18571	17318
60°	12684	14122	12684
65°	10473	11329	10473
70°	8749	9102	8749
75°	7403	7403	7403
80°	6199	6199	6199
85°	5483	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	5.0
10°-20°	390.7	14.6
20°-30°	608.0	22.6
30°-40°	694.8	25.9
40°-50°	464.8	17.3
50°-60°	222.5	8.3
60°-70°	108.4	4.0
70°-80°	48.8	1.8
80°-90°	12.5	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°	1133.3	42.2
0°-40°	1828.1	68.1
0°-60°	2515.4	93.7
0°-90°	2685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1415	1415	1415	1415	1415	134
15°	1379	1379	1379	1384	1387	390
25°	1309	1318	1331	1329	1323	599
35°	1081	1142	1181	1159	1098	642
45°	425	548	867	556	434	353
55°	231	247	247	250	231	201
65°	103	106	111	106	103	103
75°	44	44	44	44	44	48
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°	1420.4	1420.4	1420.4	1420.4	1420.4
2.5°	1417.6	1417.6	1417.6	1417.6	1417.6
5°	1414.8	1414.8	1414.8	1414.8	1414.8
7.5°	1406.5	1406.5	1409.2	1406.5	1409.2
10°	1398.1	1398.1	1398.1	1400.9	1400.9
12.5°	1387.0	1387.0	1387.0	1392.6	1395.3
15°	1378.7	1378.7	1378.7	1384.2	1387.0
17.5°	1367.6	1367.6	1370.3	1375.9	1375.9
20°	1353.7	1356.4	1359.2	1364.8	1364.8
22.5°	1334.2	1339.8	1348.1	1350.9	1348.1
25°	1309.2	1317.5	1331.4	1328.6	1323.1
27.5°	1267.5	1286.9	1309.2	1298.1	1284.2
30°	1214.7	1245.3	1278.6	1256.4	1239.7
32.5°	1167.4	1192.4	1234.1	1209.1	1192.4
35°	1081.3	1142.4	1181.3	1159.1	1097.9
37.5°	906.1	1042.3	1117.4	1059.0	928.4
40°	733.8	878.3	1047.9	889.5	750.5
42.5°	569.8	708.8	984.0	719.9	580.9
45°	425.3	547.6	867.2	555.9	433.6
47.5°	336.3	405.8	675.4	414.2	341.9
50°	294.6	322.4	494.8	328.0	300.2
52.5°	264.1	280.7	344.7	283.5	264.1
55°	230.7	247.4	247.4	250.2	230.7
57.5°	186.2	211.2	194.6	211.2	189.0
60°	147.3	166.8	164.0	166.8	147.3
62.5°	119.5	130.6	133.4	130.6	119.5
65°	102.8	105.6	111.2	105.6	102.8
67.5°	86.2	88.9	88.9	88.9	83.4
70°	69.5	72.3	72.3	72.3	69.5
72.5°	55.6	58.4	58.4	58.4	55.6
75°	44.5	44.5	44.5	44.5	44.5
77.5°	33.4	36.1	33.4	36.1	33.4
80°	25.0	25.0	25.0	25.0	25.0
82.5°	16.7	16.7	16.7	16.7	16.7
85°	11.1	11.1	11.1	11.1	11.1
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)