

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: P253086

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253086
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2674.4 lumens
Efficiency: N/A
Efficacy: 104.9 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

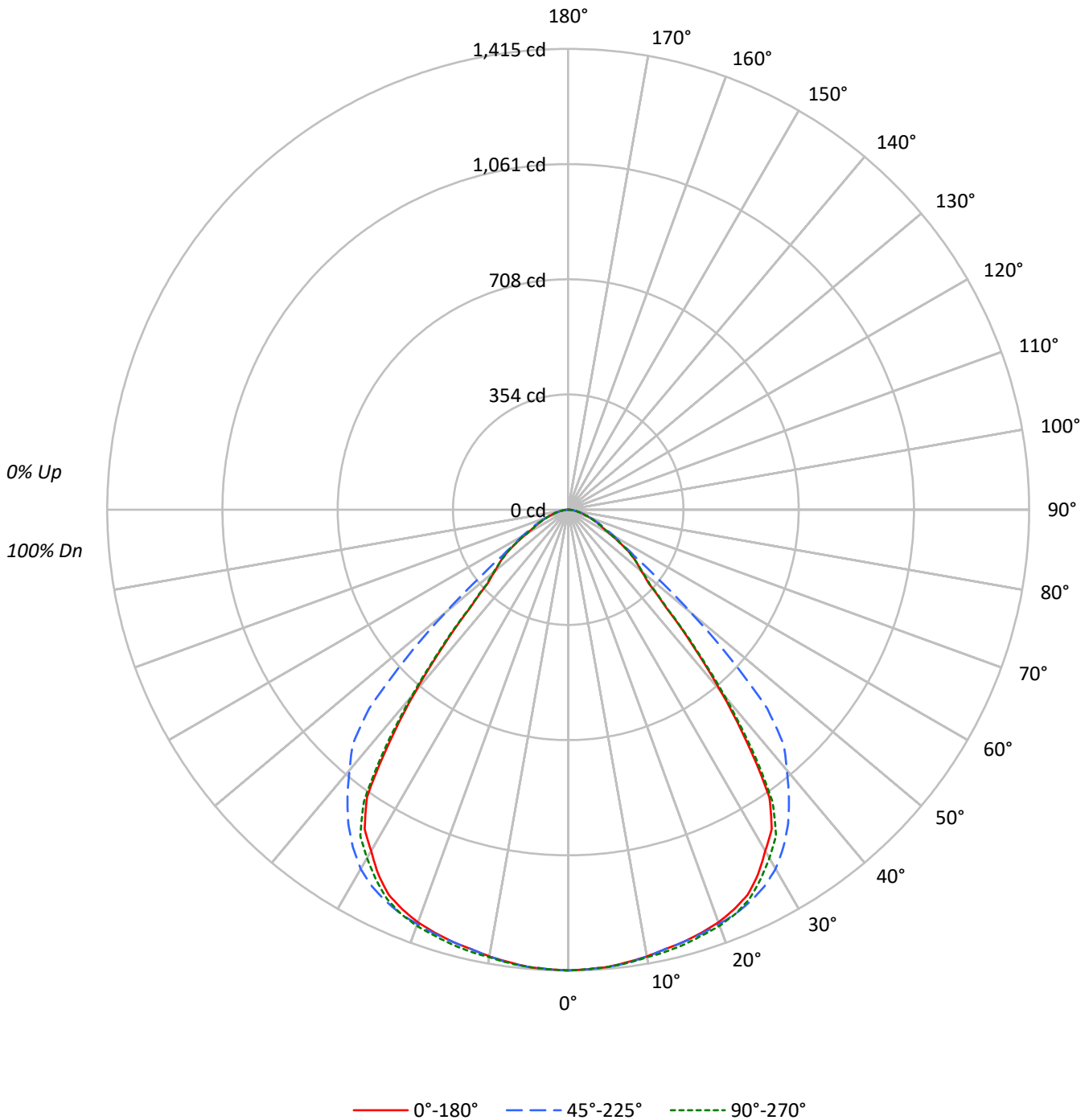
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	60911	60911	60911
5°	60906	60906	60906
10°	60884	60884	61007
15°	61210	61210	61580
20°	61778	62030	62286
25°	61949	62999	62604
30°	60152	63314	61390
35°	56608	61844	57481
40°	41080	58661	42013
45°	25793	52597	26298
50°	19659	33009	20028
55°	17250	18496	17250
60°	12633	14062	12633
65°	10432	11278	10432
70°	8711	9064	8711
75°	7369	7369	7369
80°	6174	6174	6174
85°	5483	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	5.0
10°-20°	389.2	14.6
20°-30°	605.6	22.6
30°-40°	692.1	25.9
40°-50°	463.0	17.3
50°-60°	221.6	8.3
60°-70°	108.0	4.0
70°-80°	48.6	1.8
80°-90°	12.4	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°	1128.8	42.2
0°-40°	1820.8	68.1
0°-60°	2505.4	93.7
0°-90°	2674.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1409	1409	1409	1409	1409	134
15°	1373	1373	1373	1379	1382	388
25°	1304	1312	1326	1323	1318	597
35°	1077	1138	1177	1154	1094	640
45°	424	545	864	554	432	351
55°	230	246	246	249	230	200
65°	102	105	111	105	102	103
75°	44	44	44	44	44	47
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°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1412.0	1412.0	1412.0	1412.0	1412.0
5°	1409.2	1409.2	1409.2	1409.2	1409.2
7.5°	1400.9	1400.9	1403.7	1400.9	1403.7
10°	1392.6	1392.6	1392.6	1395.4	1395.4
12.5°	1381.5	1381.5	1381.5	1387.0	1389.8
15°	1373.2	1373.2	1373.2	1378.7	1381.5
17.5°	1362.1	1362.1	1364.9	1370.4	1370.4
20°	1348.3	1351.1	1353.8	1359.4	1359.4
22.5°	1328.9	1334.4	1342.8	1345.5	1342.8
25°	1304.0	1312.3	1326.1	1323.4	1317.8
27.5°	1262.5	1281.8	1304.0	1292.9	1279.1
30°	1209.9	1240.3	1273.5	1251.4	1234.8
32.5°	1162.8	1187.7	1229.2	1204.3	1187.7
35°	1077.0	1137.9	1176.6	1154.5	1093.6
37.5°	902.6	1038.2	1113.0	1054.8	924.7
40°	730.9	874.9	1043.7	885.9	747.5
42.5°	567.6	706.0	980.1	717.1	578.6
45°	423.6	545.4	863.8	553.7	431.9
47.5°	335.0	404.2	672.8	412.5	340.5
50°	293.5	321.2	492.8	326.7	299.0
52.5°	263.0	279.6	343.3	282.4	263.0
55°	229.8	246.4	246.4	249.2	229.8
57.5°	185.5	210.4	193.8	210.4	188.3
60°	146.7	166.1	163.3	166.1	146.7
62.5°	119.0	130.1	132.9	130.1	119.0
65°	102.4	105.2	110.7	105.2	102.4
67.5°	85.8	88.6	88.6	88.6	83.1
70°	69.2	72.0	72.0	72.0	69.2
72.5°	55.4	58.1	58.1	58.1	55.4
75°	44.3	44.3	44.3	44.3	44.3
77.5°	33.2	36.0	33.2	36.0	33.2
80°	24.9	24.9	24.9	24.9	24.9
82.5°	16.6	16.6	16.6	16.6	16.6
85°	11.1	11.1	11.1	11.1	11.1
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)