

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: P252996

Luminaire Tested: **PRS630D010-S6M24-64SWDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SWDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

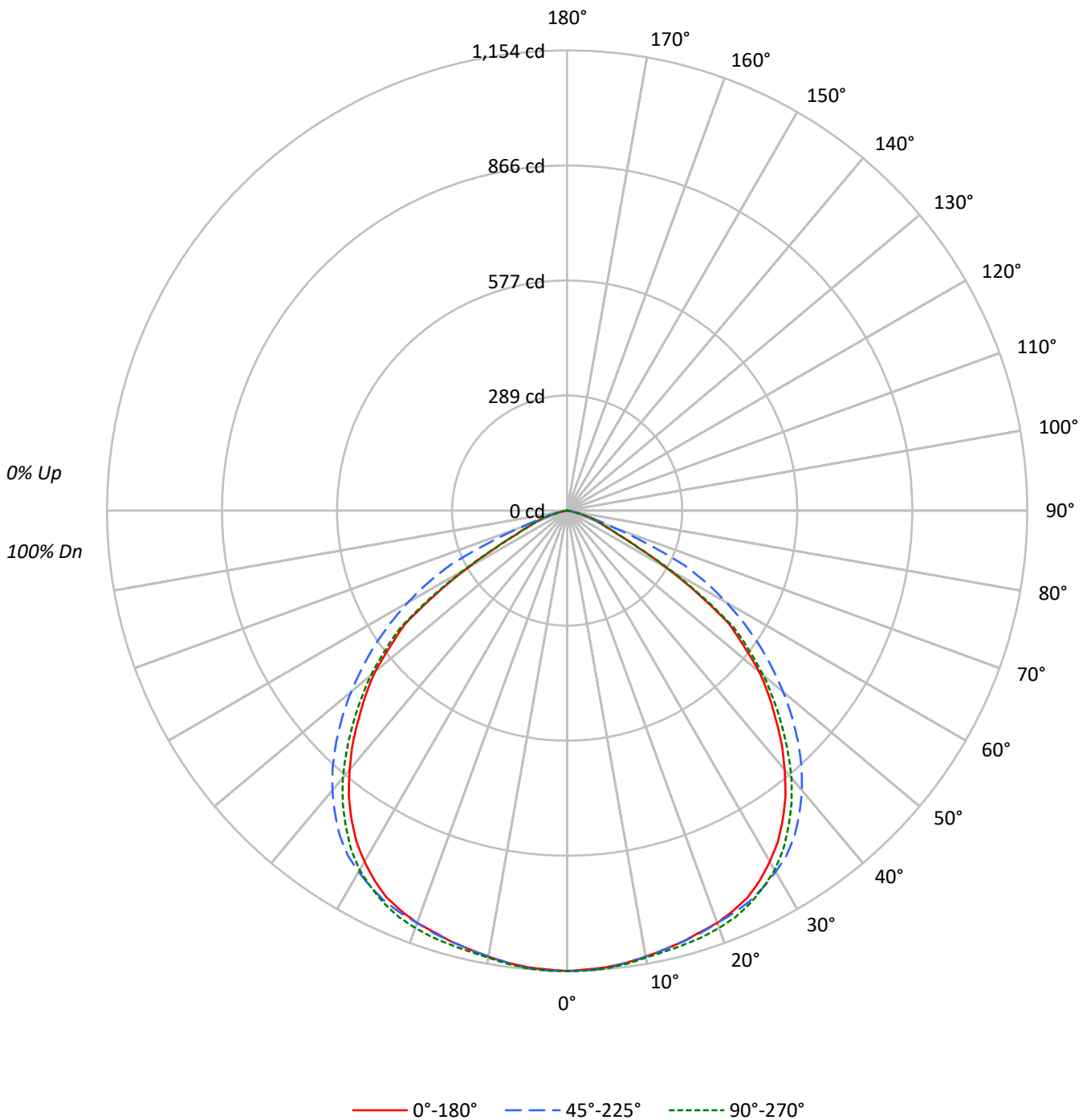
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65					65			
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49708	49708	49708
5°	49664	49781	49781
10°	49644	49644	49762
15°	49892	49892	50253
20°	50415	50415	51033
25°	50856	51369	51625
30°	50527	52008	51740
35°	49571	52277	50853
40°	47673	51484	49196
45°	45046	49832	46368
50°	42112	47377	43023
55°	37225	44146	38246
60°	24972	39671	25670
65°	14080	32856	14080
70°	10574	16038	10235
75°	6305	7220	6771
80°	2678	3372	2678
85°	1334	1334	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.8
10°-20°	317.2	11.0
20°-30°	497.0	17.3
30°-40°	607.2	21.1
40°-50°	603.7	21.0
50°-60°	476.6	16.6
60°-70°	213.4	7.4
70°-80°	49.7	1.7
80°-90°	5.1	0.2
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°	923.6	32.1
0°-40°	1530.8	53.2
0°-60°	2611.1	90.7
0°-90°	2879.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1149	1149	1152	1152	1152	109
15°	1119	1116	1119	1122	1127	316
25°	1070	1073	1081	1084	1087	492
35°	943	962	995	981	968	588
45°	740	775	818	794	762	571
55°	496	534	588	545	510	424
65°	138	182	322	184	138	155
75°	38	46	43	46	41	43
85°	3	3	3	3	3	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1151.8	1154.5	1154.5	1154.5	1154.5
5°	1149.1	1149.1	1151.8	1151.8	1151.8
7.5°	1143.6	1143.6	1143.6	1146.4	1146.4
10°	1135.5	1135.5	1135.5	1138.2	1138.2
12.5°	1127.4	1127.4	1127.4	1130.1	1132.8
15°	1119.3	1116.5	1119.3	1122.0	1127.4
17.5°	1108.4	1111.1	1111.1	1116.5	1122.0
20°	1100.3	1100.3	1100.3	1108.4	1113.8
22.5°	1086.7	1086.7	1092.2	1097.6	1103.0
25°	1070.5	1073.2	1081.3	1084.0	1086.7
27.5°	1046.1	1054.2	1065.1	1067.8	1065.1
30°	1016.3	1027.1	1046.1	1043.4	1040.7
32.5°	983.8	997.3	1024.4	1016.3	1008.1
35°	943.1	962.1	994.6	981.0	967.5
37.5°	899.7	924.1	956.6	943.1	924.1
40°	848.2	878.1	916.0	897.0	875.3
42.5°	796.8	829.3	869.9	845.5	818.4
45°	739.8	775.1	818.4	794.0	761.5
47.5°	685.6	720.9	764.2	734.4	701.9
50°	628.7	661.3	707.3	674.8	642.3
52.5°	558.3	601.6	647.7	612.5	574.5
55°	495.9	533.9	588.1	544.7	509.5
57.5°	390.2	466.1	525.8	474.3	401.1
60°	290.0	363.1	460.7	374.0	298.1
62.5°	200.5	268.3	395.7	271.0	203.3
65°	138.2	181.6	322.5	184.3	138.2
67.5°	103.0	122.0	216.8	122.0	103.0
70°	84.0	89.4	127.4	89.4	81.3
72.5°	62.3	70.5	70.5	70.5	65.0
75°	37.9	46.1	43.4	46.1	40.7
77.5°	16.3	21.7	27.1	24.4	16.3
80°	10.8	10.8	13.6	10.8	10.8
82.5°	8.1	8.1	8.1	8.1	8.1
85°	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	2.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)