

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: P253011

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253011
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-S6M24-64SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860.7 lumens
Efficiency: N/A
Efficacy: 112.2 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

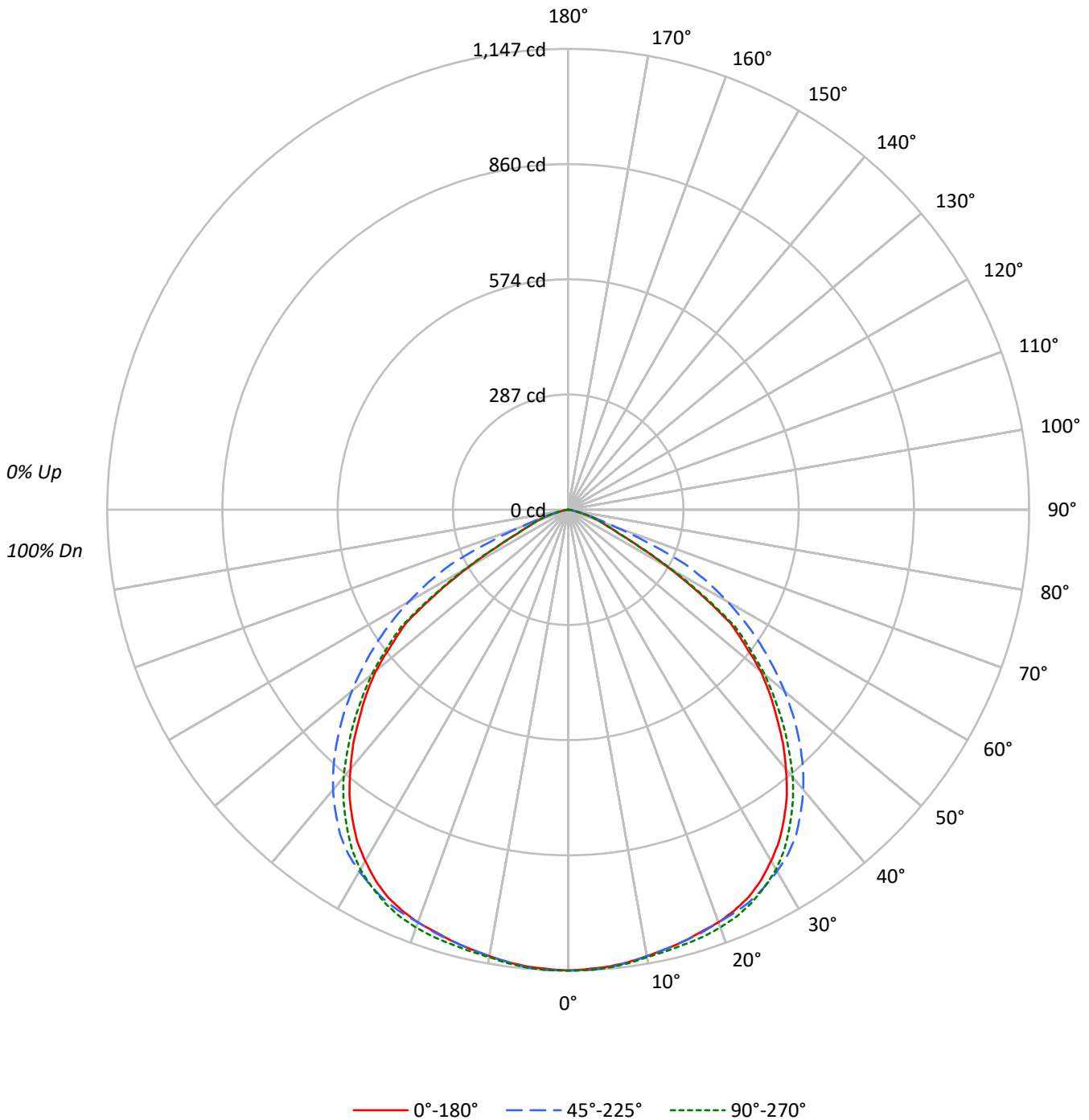
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253011

CATALOG NUMBER: PRS630D010-S6M24-64SWDH

Luminous Intensity Polar Plot





TEST NUMBER: P253011

CATALOG NUMBER: PRS630D010-S6M24-64SWDH

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	100	100	100	100	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88		
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76	76	76	76		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65	65	65	65	65	65	65		
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44	44	44	44		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35	35	35	35	35	35	35		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31	31	31	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28	28	28	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49385	49385	49385
5°	49340	49457	49457
10°	49325	49325	49443
15°	49567	49567	49928
20°	50089	50089	50703
25°	50523	51036	51293
30°	50199	51670	51402
35°	49250	51941	50522
40°	47370	51152	48882
45°	44760	49510	46069
50°	41844	47069	42742
55°	36985	43861	37998
60°	24809	39413	25506
65°	13988	32642	13988
70°	10512	15925	10172
75°	6272	7170	6721
80°	2678	3347	2678
85°	1334	1334	1334



TEST NUMBER: P253011

CATALOG NUMBER: PRS630D010-S6M24-64SWDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.8
10°-20°	315.2	11.0
20°-30°	493.8	17.3
30°-40°	603.3	21.1
40°-50°	599.8	21.0
50°-60°	473.5	16.6
60°-70°	212.0	7.4
70°-80°	49.4	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°	917.6	32.1
0°-40°	1520.9	53.2
0°-60°	2594.3	90.7
0°-90°	2860.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1142	1142	1144	1144	1144	109
15°	1112	1109	1112	1115	1120	314
25°	1064	1066	1074	1077	1080	489
35°	937	956	988	975	961	584
45°	735	770	813	789	757	567
55°	493	530	584	541	506	421
65°	137	180	320	183	137	154
75°	38	46	43	46	40	43
85°	3	3	3	3	3	5
90°	0	0	0	0	0	



TEST NUMBER: P253011

CATALOG NUMBER: PRS630D010-S6M24-64SWDH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1144.3	1147.0	1147.0	1147.0	1147.0
5°	1141.6	1141.6	1144.3	1144.3	1144.3
7.5°	1136.2	1136.2	1136.2	1138.9	1138.9
10°	1128.2	1128.2	1128.2	1130.9	1130.9
12.5°	1120.1	1120.1	1120.1	1122.8	1125.5
15°	1112.0	1109.3	1112.0	1114.7	1120.1
17.5°	1101.2	1103.9	1103.9	1109.3	1114.7
20°	1093.2	1093.2	1093.2	1101.2	1106.6
22.5°	1079.7	1079.7	1085.1	1090.5	1095.9
25°	1063.5	1066.2	1074.3	1077.0	1079.7
27.5°	1039.3	1047.4	1058.2	1060.9	1058.2
30°	1009.7	1020.5	1039.3	1036.6	1033.9
32.5°	977.4	990.8	1017.8	1009.7	1001.6
35°	937.0	955.8	988.2	974.7	961.2
37.5°	893.9	918.2	950.5	937.0	918.2
40°	842.8	872.4	910.1	891.2	869.7
42.5°	791.6	823.9	864.3	840.1	813.1
45°	735.1	770.1	813.1	788.9	756.6
47.5°	681.2	716.2	759.3	729.7	697.4
50°	624.7	657.0	702.7	670.4	638.1
52.5°	554.7	597.7	643.5	608.5	570.8
55°	492.7	530.4	584.3	541.2	506.2
57.5°	387.7	463.1	522.3	471.2	398.5
60°	288.1	360.8	457.7	371.6	296.2
62.5°	199.2	266.6	393.1	269.3	201.9
65°	137.3	180.4	320.4	183.1	137.3
67.5°	102.3	121.2	215.4	121.2	102.3
70°	83.5	88.9	126.5	88.9	80.8
72.5°	61.9	70.0	70.0	70.0	64.6
75°	37.7	45.8	43.1	45.8	40.4
77.5°	16.2	21.5	26.9	24.2	16.2
80°	10.8	10.8	13.5	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)