

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: P253016

Luminaire Tested: **PRS630D010-S6M24-64SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253016
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.1 lumens
Efficiency: N/A
Efficacy: 107.0 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

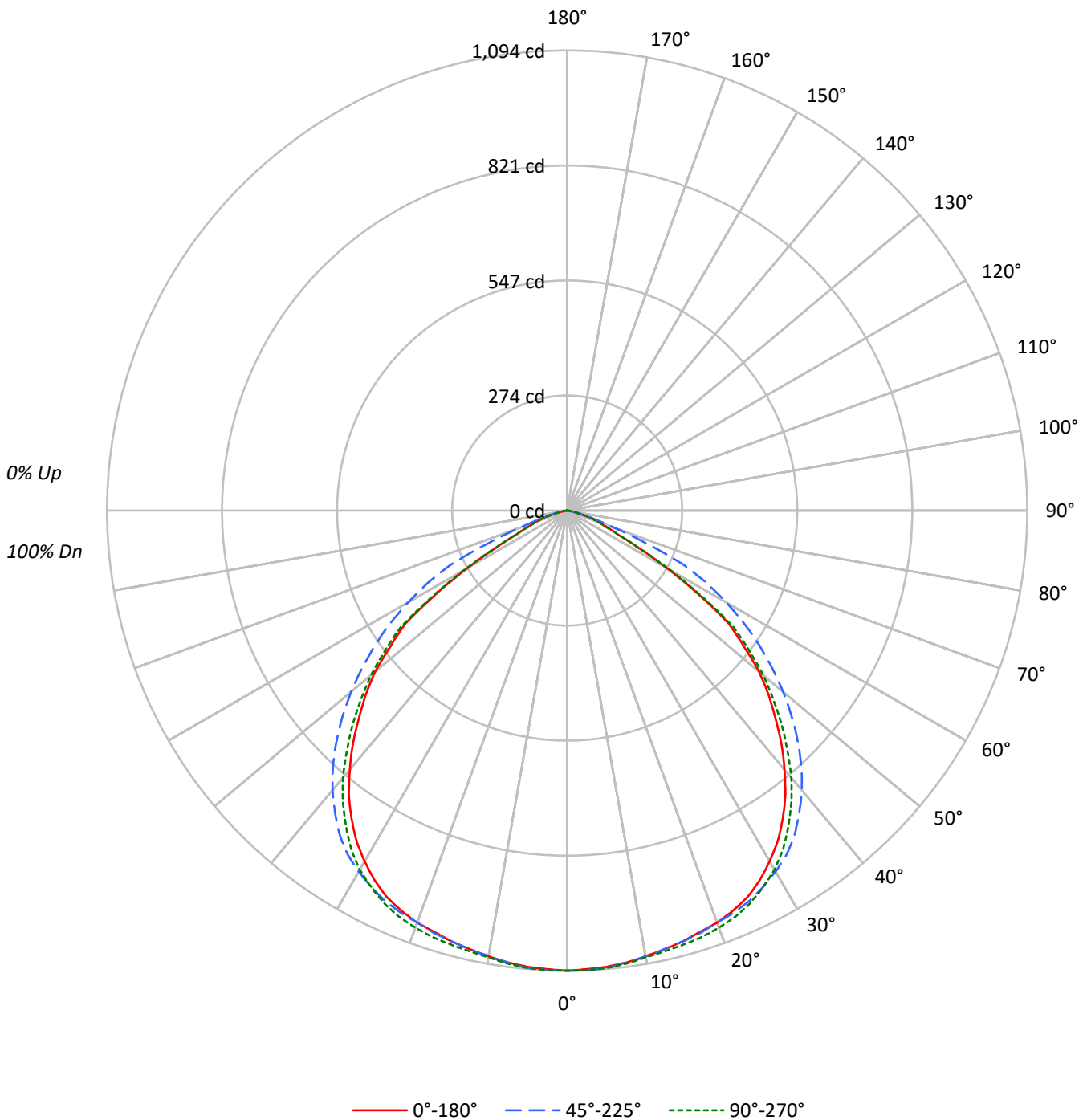
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47094	47094	47094
5°	47054	47166	47166
10°	47038	47038	47148
15°	47271	47271	47614
20°	47766	47766	48353
25°	48181	48671	48918
30°	47872	49274	49020
35°	46969	49534	48183
40°	45172	48780	46617
45°	42684	47220	43932
50°	39902	44892	40759
55°	35273	41826	36234
60°	23655	37588	24318
65°	13346	31134	13346
70°	10021	15194	9693
75°	5972	6837	6405
80°	2554	3174	2554
85°	1284	1284	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.8
10°-20°	300.6	11.0
20°-30°	470.9	17.3
30°-40°	575.3	21.1
40°-50°	572.0	21.0
50°-60°	451.6	16.6
60°-70°	202.1	7.4
70°-80°	47.1	1.7
80°-90°	4.9	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°	875.1	32.1
0°-40°	1450.4	53.2
0°-60°	2474.0	90.7
0°-90°	2728.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1089	1089	1091	1091	1091	104
15°	1060	1058	1060	1063	1068	300
25°	1014	1017	1024	1027	1030	466
35°	894	912	942	930	917	557
45°	701	734	776	752	722	541
55°	470	506	557	516	483	402
65°	131	172	306	175	131	147
75°	36	44	41	44	38	41
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°	1093.8	1093.8	1093.8	1093.8	1093.8
2.5°	1091.3	1093.8	1093.8	1093.8	1093.8
5°	1088.7	1088.7	1091.3	1091.3	1091.3
7.5°	1083.6	1083.6	1083.6	1086.1	1086.1
10°	1075.9	1075.9	1075.9	1078.4	1078.4
12.5°	1068.2	1068.2	1068.2	1070.7	1073.3
15°	1060.5	1057.9	1060.5	1063.0	1068.2
17.5°	1050.2	1052.8	1052.8	1057.9	1063.0
20°	1042.5	1042.5	1042.5	1050.2	1055.3
22.5°	1029.7	1029.7	1034.8	1039.9	1045.1
25°	1014.2	1016.8	1024.5	1027.1	1029.7
27.5°	991.1	998.8	1009.1	1011.7	1009.1
30°	962.9	973.2	991.1	988.6	986.0
32.5°	932.1	944.9	970.6	962.9	955.2
35°	893.6	911.5	942.4	929.5	916.7
37.5°	852.5	875.6	906.4	893.6	875.6
40°	803.7	831.9	867.9	849.9	829.4
42.5°	754.9	785.7	824.2	801.1	775.5
45°	701.0	734.4	775.5	752.3	721.5
47.5°	649.6	683.0	724.1	695.9	665.0
50°	595.7	626.5	670.2	639.4	608.5
52.5°	528.9	570.0	613.7	580.3	544.4
55°	469.9	505.8	557.2	516.1	482.7
57.5°	369.8	441.6	498.1	449.4	380.0
60°	274.7	344.1	436.5	354.3	282.4
62.5°	190.0	254.2	374.9	256.8	192.6
65°	131.0	172.0	305.6	174.6	131.0
67.5°	97.6	115.5	205.4	115.5	97.6
70°	79.6	84.7	120.7	84.7	77.0
72.5°	59.1	66.8	66.8	66.8	61.6
75°	35.9	43.7	41.1	43.7	38.5
77.5°	15.4	20.5	25.7	23.1	15.4
80°	10.3	10.3	12.8	10.3	10.3
82.5°	7.7	7.7	7.7	7.7	7.7
85°	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)