

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: P253046

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253046
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-S6M24-64SWDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540.3 lumens
Efficiency: N/A
Efficacy: 99.6 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

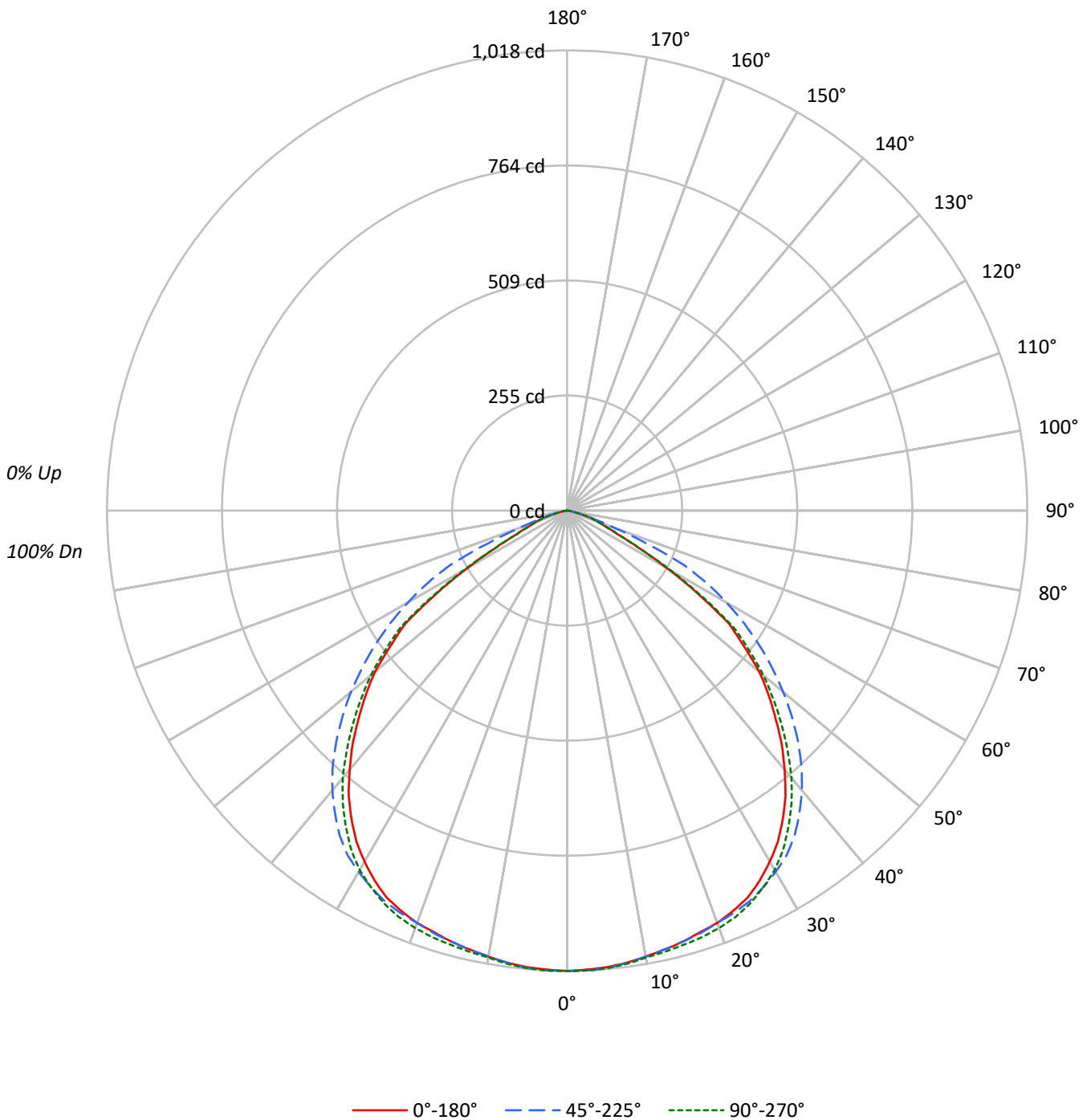
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43852	43852	43852
5°	43817	43920	43920
10°	43799	43799	43903
15°	44017	44017	44334
20°	44476	44476	45026
25°	44865	45321	45549
30°	44576	45883	45645
35°	43736	46123	44866
40°	42064	45419	43407
45°	39743	43969	40912
50°	37155	41797	37959
55°	32841	38944	33742
60°	22027	35004	22647
65°	12419	28984	12419
70°	9328	14150	9026
75°	5573	6371	5972
80°	2380	2975	2380
85°	1186	1186	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.8
10°-20°	279.9	11.0
20°-30°	438.5	17.3
30°-40°	535.7	21.1
40°-50°	532.6	21.0
50°-60°	420.5	16.6
60°-70°	188.2	7.4
70°-80°	43.8	1.7
80°-90°	4.6	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°	814.9	32.1
0°-40°	1350.6	53.2
0°-60°	2303.7	90.7
0°-90°	2540.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1014	1014	1016	1016	1016	96
15°	988	985	988	990	995	279
25°	944	947	954	956	959	434
35°	832	849	878	866	854	519
45°	653	684	722	701	672	504
55°	438	471	519	481	450	374
65°	122	160	284	163	122	137
75°	34	41	38	41	36	38
85°	2	2	2	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1016.2	1018.5	1018.5	1018.5	1018.5
5°	1013.8	1013.8	1016.2	1016.2	1016.2
7.5°	1009.0	1009.0	1009.0	1011.4	1011.4
10°	1001.8	1001.8	1001.8	1004.2	1004.2
12.5°	994.6	994.6	994.6	997.0	999.4
15°	987.5	985.1	987.5	989.9	994.6
17.5°	977.9	980.3	980.3	985.1	989.9
20°	970.7	970.7	970.7	977.9	982.7
22.5°	958.8	958.8	963.6	968.3	973.1
25°	944.4	946.8	954.0	956.4	958.8
27.5°	922.9	930.1	939.6	942.0	939.6
30°	896.6	906.2	922.9	920.5	918.1
32.5°	867.9	879.9	903.8	896.6	889.4
35°	832.1	848.8	877.5	865.5	853.6
37.5°	793.8	815.3	844.0	832.1	815.3
40°	748.4	774.7	808.1	791.4	772.3
42.5°	702.9	731.6	767.5	746.0	722.1
45°	652.7	683.8	722.1	700.6	671.9
47.5°	604.9	636.0	674.3	648.0	619.3
50°	554.7	583.4	624.0	595.3	566.7
52.5°	492.5	530.8	571.4	540.4	506.9
55°	437.5	471.0	518.8	480.6	449.5
57.5°	344.3	411.2	463.8	418.4	353.9
60°	255.8	320.4	406.5	330.0	263.0
62.5°	176.9	236.7	349.1	239.1	179.3
65°	121.9	160.2	284.5	162.6	121.9
67.5°	90.9	107.6	191.3	107.6	90.9
70°	74.1	78.9	112.4	78.9	71.7
72.5°	55.0	62.2	62.2	62.2	57.4
75°	33.5	40.6	38.3	40.6	35.9
77.5°	14.3	19.1	23.9	21.5	14.3
80°	9.6	9.6	12.0	9.6	9.6
82.5°	7.2	7.2	7.2	7.2	7.2
85°	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)