

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: P253041

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253041  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2663.8 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

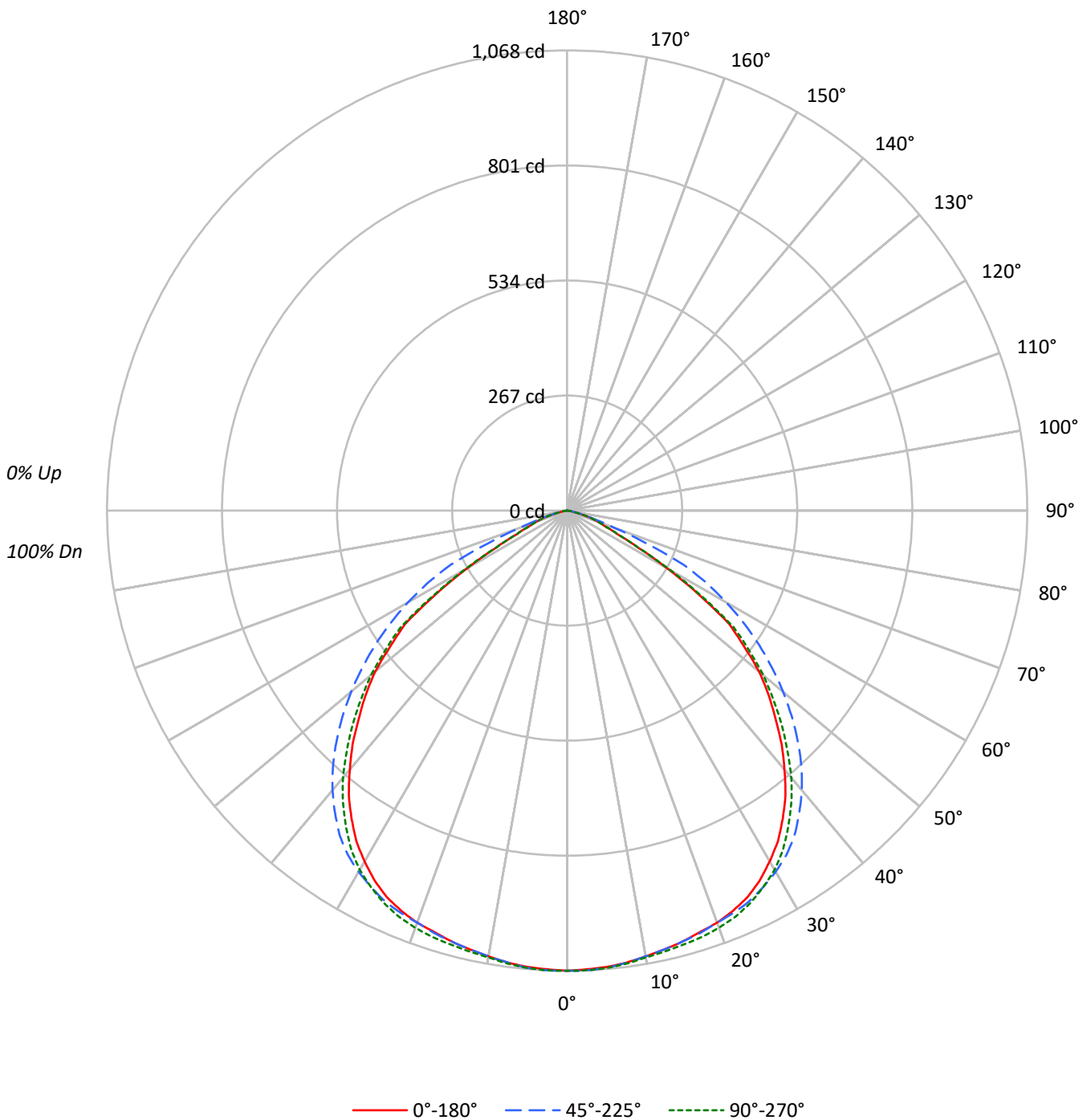
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	45988	45988	45988
5°	45943	46055	46055
10°	45928	45928	46037
15°	46157	46157	46491
20°	46639	46639	47212
25°	47046	47526	47763
30°	46743	48116	47867
35°	45860	48362	47048
40°	44104	47628	45515
45°	41679	46106	42897
50°	38964	43833	39801
55°	34440	40843	35378
60°	23104	36701	23750
65°	13030	30401	13030
70°	9781	14829	9467
75°	5839	6671	6255
80°	2479	3099	2479
85°	1235	1235	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	3.8
10°-20°	293.5	11.0
20°-30°	459.8	17.3
30°-40°	561.7	21.1
40°-50°	558.5	21.0
50°-60°	441.0	16.6
60°-70°	197.4	7.4
70°-80°	46.0	1.7
80°-90°	4.8	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°	854.5	32.1
0°-40°	1416.2	53.2
0°-60°	2415.7	90.7
0°-90°	2663.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1063	1063	1066	1066	1066	101
15°	1036	1033	1036	1038	1043	293
25°	990	993	1000	1003	1005	455
35°	872	890	920	908	895	544
45°	684	717	757	735	704	528
55°	459	494	544	504	471	392
65°	128	168	298	170	128	143
75°	35	43	40	43	38	40
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°	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	1065.6	1068.1	1068.1	1068.1	1068.1
5°	1063.0	1063.0	1065.6	1065.6	1065.6
7.5°	1058.0	1058.0	1058.0	1060.5	1060.5
10°	1050.5	1050.5	1050.5	1053.0	1053.0
12.5°	1043.0	1043.0	1043.0	1045.5	1048.0
15°	1035.5	1033.0	1035.5	1038.0	1043.0
17.5°	1025.4	1027.9	1027.9	1033.0	1038.0
20°	1017.9	1017.9	1017.9	1025.4	1030.4
22.5°	1005.4	1005.4	1010.4	1015.4	1020.4
25°	990.3	992.8	1000.4	1002.9	1005.4
27.5°	967.8	975.3	985.3	987.8	985.3
30°	940.2	950.2	967.8	965.3	962.8
32.5°	910.1	922.6	947.7	940.2	932.7
35°	872.5	890.0	920.1	907.6	895.1
37.5°	832.4	854.9	885.0	872.5	854.9
40°	784.7	812.3	847.4	829.9	809.8
42.5°	737.1	767.2	804.8	782.2	757.2
45°	684.5	717.1	757.2	734.6	704.5
47.5°	634.3	666.9	707.0	679.4	649.4
50°	581.7	611.8	654.4	624.3	594.2
52.5°	516.5	556.6	599.2	566.6	531.5
55°	458.8	493.9	544.1	503.9	471.3
57.5°	361.0	431.2	486.4	438.8	371.1
60°	268.3	336.0	426.2	346.0	275.8
62.5°	185.5	248.2	366.0	250.7	188.0
65°	127.9	168.0	298.4	170.5	127.9
67.5°	95.3	112.8	200.6	112.8	95.3
70°	77.7	82.7	117.8	82.7	75.2
72.5°	57.7	65.2	65.2	65.2	60.2
75°	35.1	42.6	40.1	42.6	37.6
77.5°	15.0	20.1	25.1	22.6	15.0
80°	10.0	10.0	12.5	10.0	10.0
82.5°	7.5	7.5	7.5	7.5	7.5
85°	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)