

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: P253081

Luminaire Tested: **PRS630D010-S6M24-61SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SWDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2413.1 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

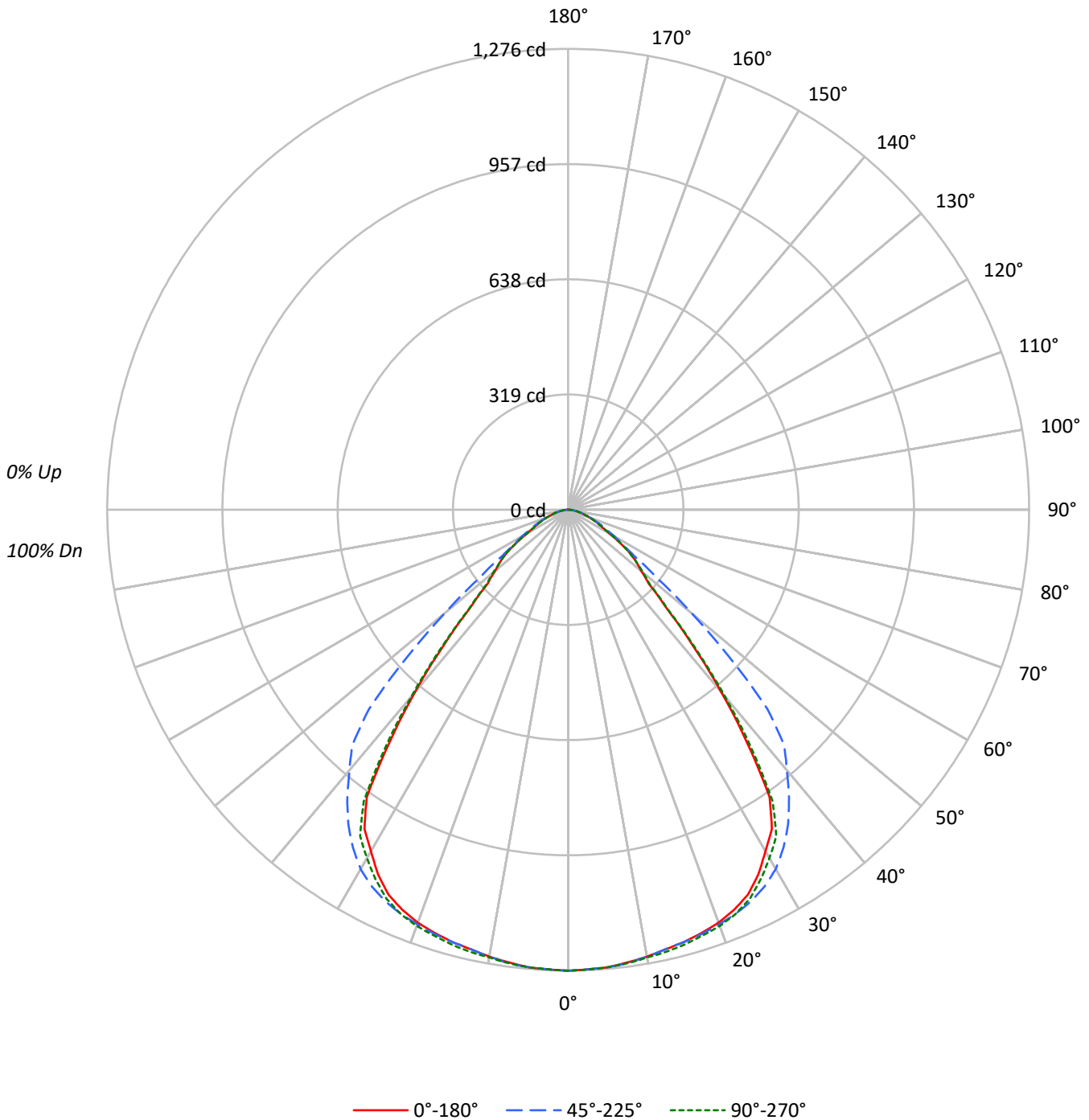
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54961	54961	54961
5°	54954	54954	54954
10°	54934	54934	55043
15°	55228	55228	55562
20°	55739	55968	56197
25°	55892	56842	56485
30°	54270	57129	55389
35°	51074	55799	51862
40°	37067	52928	37910
45°	23272	47458	23729
50°	17737	29781	18072
55°	15561	16687	15561
60°	11401	12693	11401
65°	9414	10178	9414
70°	7855	8170	7855
75°	6654	6654	6654
80°	5579	5579	5579
85°	4940	4940	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	5.0
10°-20°	351.2	14.6
20°-30°	546.4	22.6
30°-40°	624.4	25.9
40°-50°	417.7	17.3
50°-60°	199.9	8.3
60°-70°	97.4	4.0
70°-80°	43.9	1.8
80°-90°	11.2	0.5
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°	1018.4	42.2
0°-40°	1642.9	68.1
0°-60°	2260.5	93.7
0°-90°	2413.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1272	1272	1272	1272	1272	121
15°	1239	1239	1239	1244	1246	350
25°	1176	1184	1196	1194	1189	539
35°	972	1027	1062	1042	987	577
45°	382	492	779	500	390	317
55°	207	222	222	225	207	181
65°	92	95	100	95	92	93
75°	40	40	40	40	40	43
85°	10	10	10	10	10	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.5	1276.5	1276.5	1276.5	1276.5
2.5°	1274.0	1274.0	1274.0	1274.0	1274.0
5°	1271.5	1271.5	1271.5	1271.5	1271.5
7.5°	1264.0	1264.0	1266.5	1264.0	1266.5
10°	1256.5	1256.5	1256.5	1259.0	1259.0
12.5°	1246.5	1246.5	1246.5	1251.5	1254.0
15°	1239.0	1239.0	1239.0	1244.0	1246.5
17.5°	1229.0	1229.0	1231.5	1236.5	1236.5
20°	1216.5	1219.0	1221.5	1226.5	1226.5
22.5°	1199.0	1204.0	1211.5	1214.0	1211.5
25°	1176.5	1184.0	1196.5	1194.0	1189.0
27.5°	1139.1	1156.6	1176.5	1166.6	1154.1
30°	1091.6	1119.1	1149.1	1129.1	1114.1
32.5°	1049.1	1071.6	1109.1	1086.6	1071.6
35°	971.7	1026.7	1061.6	1041.7	986.7
37.5°	814.3	936.7	1004.2	951.7	834.3
40°	659.5	789.4	941.7	799.4	674.5
42.5°	512.1	637.0	884.3	647.0	522.1
45°	382.2	492.1	779.4	499.6	389.7
47.5°	302.3	364.7	607.0	372.2	307.3
50°	264.8	289.8	444.6	294.8	269.8
52.5°	237.3	252.3	309.7	254.8	237.3
55°	207.3	222.3	222.3	224.8	207.3
57.5°	167.4	189.8	174.9	189.8	169.9
60°	132.4	149.9	147.4	149.9	132.4
62.5°	107.4	117.4	119.9	117.4	107.4
65°	92.4	94.9	99.9	94.9	92.4
67.5°	77.4	79.9	79.9	79.9	74.9
70°	62.4	64.9	64.9	64.9	62.4
72.5°	50.0	52.5	52.5	52.5	50.0
75°	40.0	40.0	40.0	40.0	40.0
77.5°	30.0	32.5	30.0	32.5	30.0
80°	22.5	22.5	22.5	22.5	22.5
82.5°	15.0	15.0	15.0	15.0	15.0
85°	10.0	10.0	10.0	10.0	10.0
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)