

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: P238271

Luminaire Tested: **PRS630D010-S6M24-61SNDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

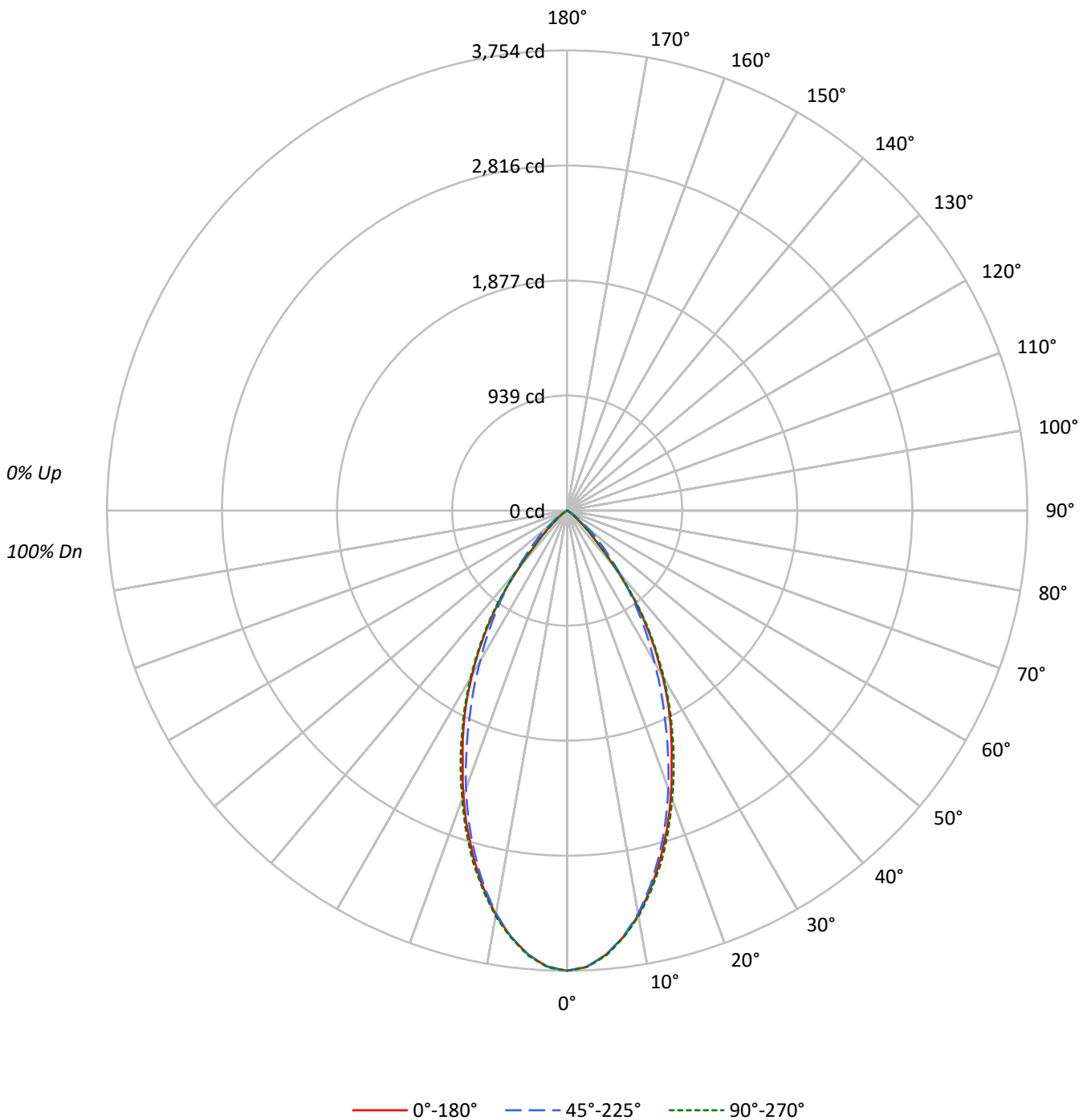
Lumens per Lamp: N/A
Luminaire Lumens: 3040.3 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	161648	161648	161648
5°	157131	157131	157490
10°	146387	145902	146868
15°	131022	129547	132257
20°	113415	110506	114680
25°	95412	89902	96728
30°	77190	70458	78562
35°	57502	53292	58953
40°	34471	37264	34628
45°	15978	24058	16148
50°	7770	13510	7770
55°	4151	5600	4151
60°	1429	2377	1429
65°	0	846	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	11.1
10°-20°	814.1	26.8
20°-30°	894.8	29.4
30°-40°	656.7	21.6
40°-50°	267.0	8.8
50°-60°	64.2	2.1
60°-70°	5.5	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2046.9	67.3
0°-40°	2703.6	88.9
0°-60°	3034.7	99.8
0°-90°	3040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3754	3754	3754	3754	3754	
5°	3636	3638	3636	3644	3644	338
15°	2939	2928	2906	2934	2967	818
25°	2008	1937	1892	1964	2036	917
35°	1094	1042	1014	1061	1122	673
45°	262	312	395	318	265	227
55°	55	66	75	66	55	52
65°	0	0	8	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3754.4	3754.4	3754.4	3754.4	3754.4
2.5°	3724.0	3724.0	3721.3	3724.0	3726.8
5°	3635.6	3638.4	3635.6	3643.9	3643.9
7.5°	3508.5	3503.0	3505.8	3516.8	3514.1
10°	3348.3	3340.0	3337.2	3348.3	3359.3
12.5°	3154.9	3141.1	3135.6	3152.2	3168.7
15°	2939.4	2928.4	2906.3	2933.9	2967.1
17.5°	2712.9	2690.8	2665.9	2701.8	2740.5
20°	2475.3	2436.6	2411.8	2456.0	2502.9
22.5°	2226.7	2185.2	2152.1	2212.9	2270.9
25°	2008.4	1936.6	1892.4	1964.2	2036.1
27.5°	1784.7	1707.3	1654.8	1729.4	1806.8
30°	1552.6	1475.2	1417.2	1502.9	1580.2
32.5°	1323.3	1254.2	1215.6	1276.3	1342.6
35°	1094.0	1041.5	1013.9	1060.8	1121.6
37.5°	859.2	842.6	834.3	856.4	884.0
40°	613.3	654.7	663.0	665.8	616.1
42.5°	406.1	464.1	511.1	472.4	411.6
45°	262.4	312.2	395.1	317.7	265.2
47.5°	168.5	207.2	295.6	210.0	171.3
50°	116.0	138.1	201.7	138.1	116.0
52.5°	80.1	93.9	127.1	93.9	82.9
55°	55.3	66.3	74.6	66.3	55.3
57.5°	33.2	41.4	44.2	41.4	33.2
60°	16.6	24.9	27.6	24.9	16.6
62.5°	0.0	8.3	16.6	8.3	0.0
65°	0.0	0.0	8.3	0.0	0.0
67.5°	0.0	0.0	2.8	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)