

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: P253067

Luminaire Tested: **PRS640D010-S6M24-61SWDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253067
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: PRS640D010-S6M24-61SWDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322.1 lumens
Efficiency: N/A
Efficacy: 87.4 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

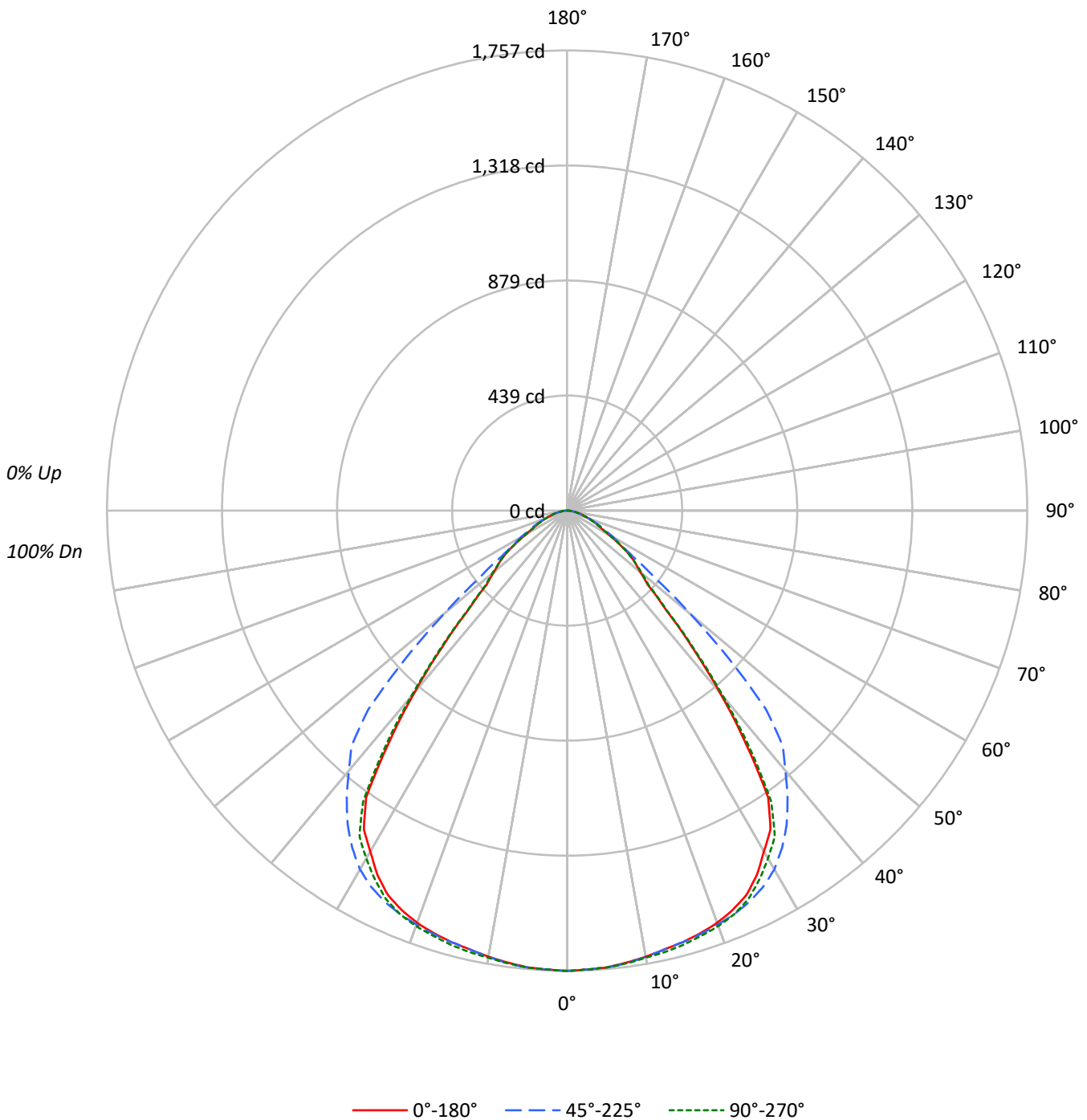
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	75666	75666	75666
5°	75657	75657	75657
10°	75627	75627	75780
15°	76035	76035	76494
20°	76737	77054	77370
25°	76951	78258	77768
30°	74719	78651	76255
35°	70316	76824	71399
40°	51029	72870	52187
45°	32040	65335	32667
50°	24415	41007	24877
55°	21424	22977	21424
60°	15698	17472	15698
65°	12959	14018	12959
70°	10826	11254	10826
75°	9149	9149	9149
80°	7686	7686	7686
85°	6817	6817	6817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	5.0
10°-20°	483.4	14.6
20°-30°	752.3	22.6
30°-40°	859.7	25.9
40°-50°	575.1	17.3
50°-60°	275.2	8.3
60°-70°	134.2	4.0
70°-80°	60.4	1.8
80°-90°	15.5	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°	1402.1	42.2
0°-40°	2261.8	68.1
0°-60°	3112.2	93.7
0°-90°	3322.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1750	1750	1750	1750	1750	166
15°	1706	1706	1706	1713	1716	482
25°	1620	1630	1647	1644	1637	741
35°	1338	1414	1462	1434	1358	795
45°	526	678	1073	688	536	436
55°	285	306	306	310	285	249
65°	127	131	138	131	127	127
75°	55	55	55	55	55	59
85°	14	14	14	14	14	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1757.4	1757.4	1757.4	1757.4	1757.4
2.5°	1753.9	1753.9	1753.9	1753.9	1753.9
5°	1750.5	1750.5	1750.5	1750.5	1750.5
7.5°	1740.2	1740.2	1743.6	1740.2	1743.6
10°	1729.8	1729.8	1729.8	1733.3	1733.3
12.5°	1716.1	1716.1	1716.1	1723.0	1726.4
15°	1705.8	1705.8	1705.8	1712.6	1716.1
17.5°	1692.0	1692.0	1695.5	1702.3	1702.3
20°	1674.8	1678.3	1681.7	1688.6	1688.6
22.5°	1650.7	1657.6	1667.9	1671.4	1667.9
25°	1619.8	1630.1	1647.3	1643.9	1637.0
27.5°	1568.2	1592.3	1619.8	1606.0	1588.8
30°	1502.9	1540.7	1582.0	1554.5	1533.8
32.5°	1444.4	1475.4	1526.9	1496.0	1475.4
35°	1337.8	1413.5	1461.6	1434.1	1358.4
37.5°	1121.1	1289.6	1382.5	1310.3	1148.6
40°	907.9	1086.7	1296.5	1100.5	928.5
42.5°	705.0	877.0	1217.4	890.7	718.8
45°	526.2	677.5	1073.0	687.8	536.5
47.5°	416.1	502.1	835.7	512.4	423.0
50°	364.5	398.9	612.2	405.8	371.4
52.5°	326.7	347.3	426.4	350.8	326.7
55°	285.4	306.1	306.1	309.5	285.4
57.5°	230.4	261.4	240.7	261.4	233.9
60°	182.3	206.3	202.9	206.3	182.3
62.5°	147.9	161.6	165.1	161.6	147.9
65°	127.2	130.7	137.6	130.7	127.2
67.5°	106.6	110.0	110.0	110.0	103.2
70°	86.0	89.4	89.4	89.4	86.0
72.5°	68.8	72.2	72.2	72.2	68.8
75°	55.0	55.0	55.0	55.0	55.0
77.5°	41.3	44.7	41.3	44.7	41.3
80°	31.0	31.0	31.0	31.0	31.0
82.5°	20.6	20.6	20.6	20.6	20.6
85°	13.8	13.8	13.8	13.8	13.8
87.5°	6.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)