

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: P253052

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253052
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-S6M24-61SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

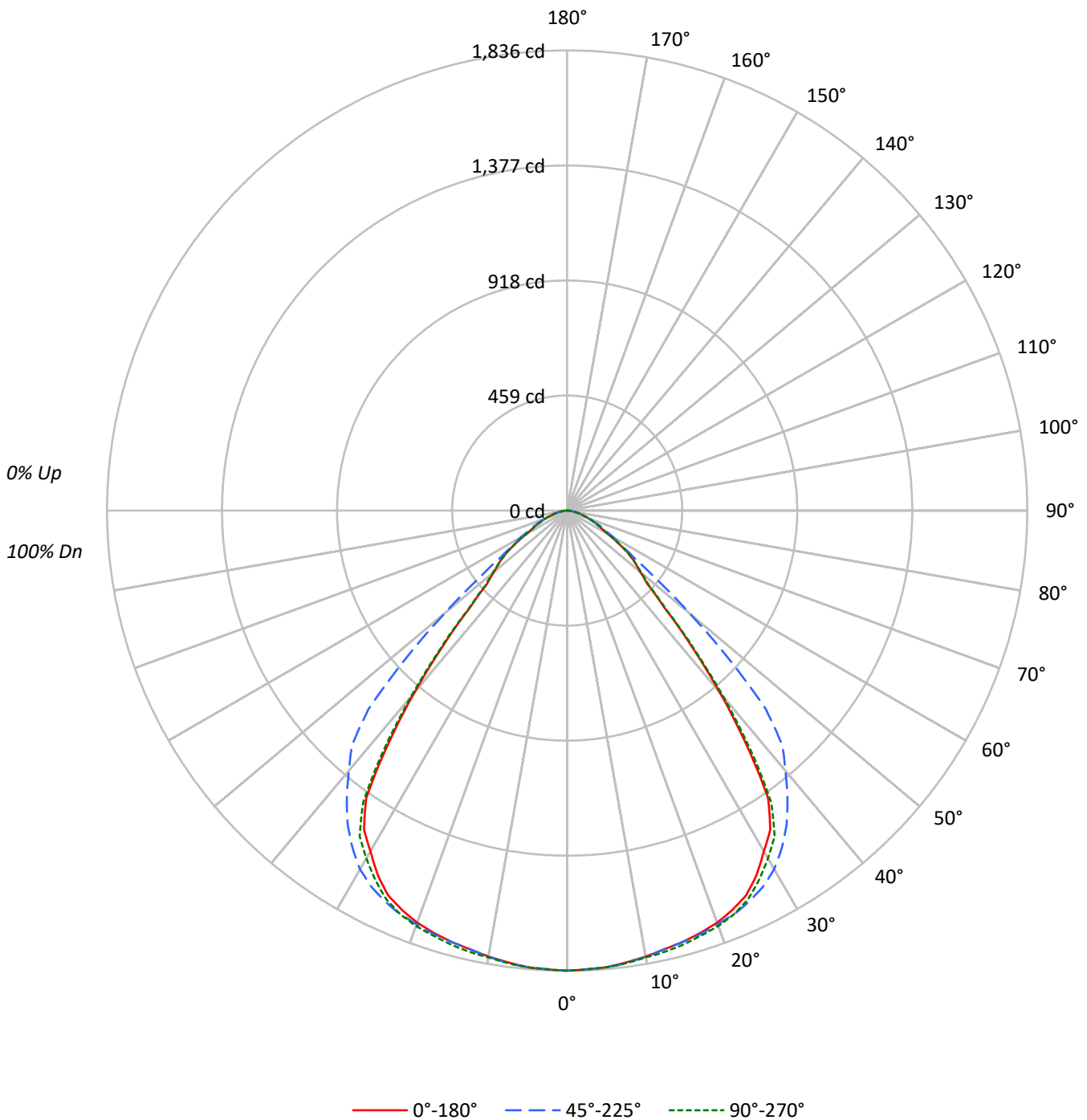
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79033	79033	79033
5°	79024	79024	79024
10°	78993	78993	79150
15°	79418	79418	79900
20°	80156	80485	80811
25°	80377	81740	81232
30°	78045	82151	79651
35°	73444	80245	74579
40°	53299	76113	54513
45°	33465	68239	34123
50°	25507	42829	25989
55°	22377	23998	22377
60°	16396	18247	16396
65°	13540	14640	13540
70°	11305	11758	11305
75°	9565	9565	9565
80°	8009	8009	8009
85°	7114	7114	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	5.0
10°-20°	505.0	14.6
20°-30°	785.7	22.6
30°-40°	897.9	25.9
40°-50°	600.7	17.3
50°-60°	287.5	8.3
60°-70°	140.1	4.0
70°-80°	63.1	1.8
80°-90°	16.1	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
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0°-30°	1464.5	42.2
0°-40°	2362.5	68.1
0°-60°	3250.7	93.7
0°-90°	3470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1828	1828	1828	1828	1828	174
15°	1782	1782	1782	1789	1792	504
25°	1692	1703	1721	1717	1710	774
35°	1397	1476	1527	1498	1419	830
45°	550	708	1121	718	560	456
55°	298	320	320	323	298	260
65°	133	136	144	136	133	133
75°	58	58	58	58	58	62
85°	14	14	14	14	14	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.6	1835.6	1835.6	1835.6	1835.6
2.5°	1832.0	1832.0	1832.0	1832.0	1832.0
5°	1828.4	1828.4	1828.4	1828.4	1828.4
7.5°	1817.6	1817.6	1821.2	1817.6	1821.2
10°	1806.8	1806.8	1806.8	1810.4	1810.4
12.5°	1792.5	1792.5	1792.5	1799.7	1803.3
15°	1781.7	1781.7	1781.7	1788.9	1792.5
17.5°	1767.3	1767.3	1770.9	1778.1	1778.1
20°	1749.4	1753.0	1756.6	1763.7	1763.7
22.5°	1724.2	1731.4	1742.2	1745.8	1742.2
25°	1691.9	1702.7	1720.6	1717.0	1709.9
27.5°	1638.0	1663.2	1691.9	1677.5	1659.6
30°	1569.8	1609.3	1652.4	1623.6	1602.1
32.5°	1508.7	1541.0	1594.9	1562.6	1541.0
35°	1397.3	1476.4	1526.7	1497.9	1418.9
37.5°	1171.0	1347.1	1444.0	1368.6	1199.8
40°	948.3	1135.1	1354.2	1149.5	969.9
42.5°	736.4	916.0	1271.6	930.4	750.8
45°	549.6	707.7	1120.7	718.4	560.4
47.5°	434.6	524.5	872.9	535.2	441.8
50°	380.8	416.7	639.4	423.9	388.0
52.5°	341.3	362.8	445.4	366.4	341.3
55°	298.1	319.7	319.7	323.3	298.1
57.5°	240.7	273.0	251.4	273.0	244.3
60°	190.4	215.5	211.9	215.5	190.4
62.5°	154.5	168.8	172.4	168.8	154.5
65°	132.9	136.5	143.7	136.5	132.9
67.5°	111.4	114.9	114.9	114.9	107.8
70°	89.8	93.4	93.4	93.4	89.8
72.5°	71.8	75.4	75.4	75.4	71.8
75°	57.5	57.5	57.5	57.5	57.5
77.5°	43.1	46.7	43.1	46.7	43.1
80°	32.3	32.3	32.3	32.3	32.3
82.5°	21.6	21.6	21.6	21.6	21.6
85°	14.4	14.4	14.4	14.4	14.4
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)