

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: P253012

Luminaire Tested: **PRS640D010-S6M24-64SWDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253012
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: PRS640D010-S6M24-64SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4097.5 lumens
Efficiency: N/A
Efficacy: 107.8 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

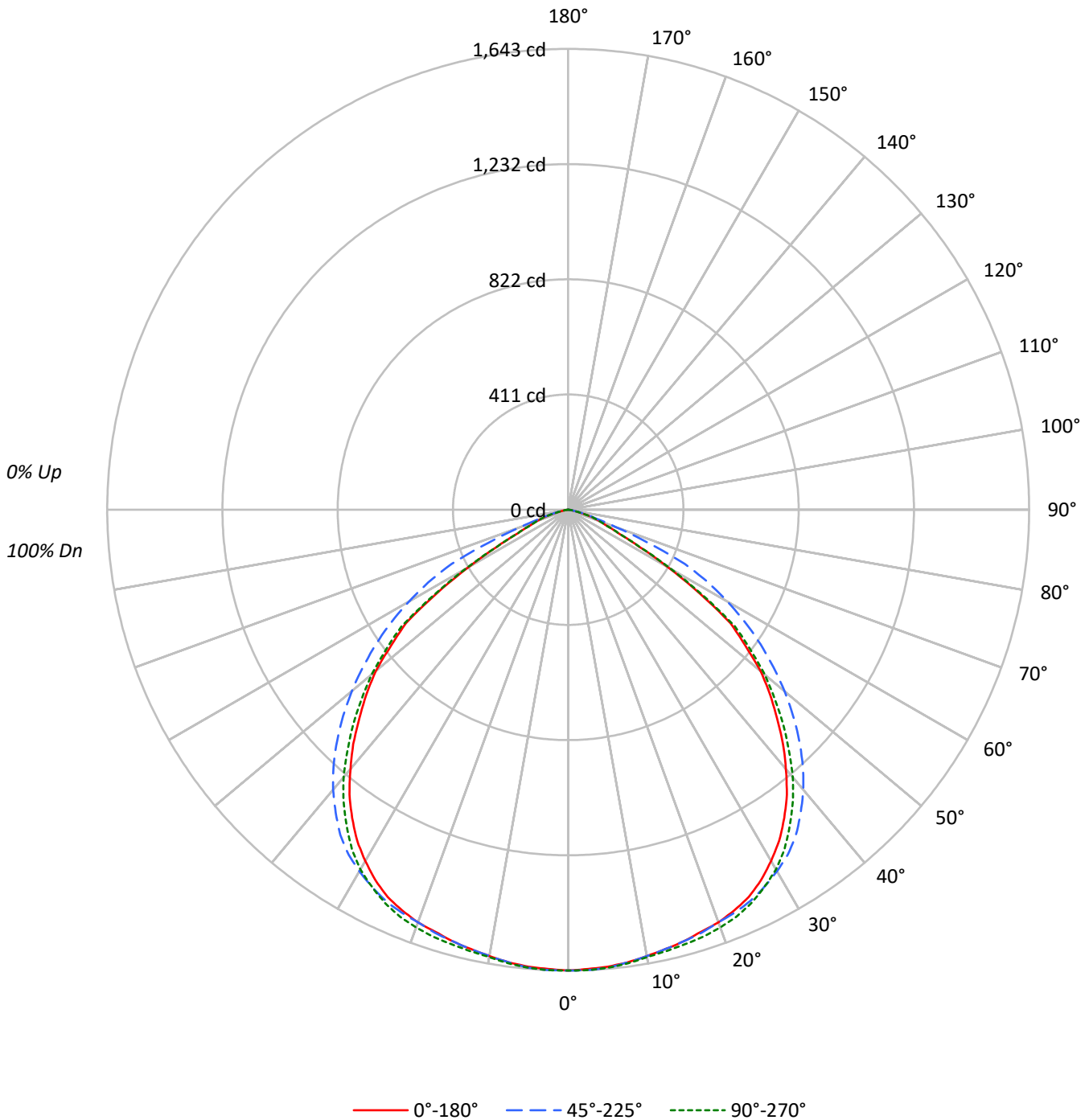
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253012

CATALOG NUMBER: PRS640D010-S6M24-64SWDH

Luminous Intensity Polar Plot





TEST NUMBER: P253012

CATALOG NUMBER: PRS640D010-S6M24-64SWDH

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70736	70736	70736
5°	70674	70838	70838
10°	70647	70647	70817
15°	70998	70998	71511
20°	71743	71743	72623
25°	72367	73103	73469
30°	71900	74008	73625
35°	70542	74395	72366
40°	67845	73263	70015
45°	64105	70918	65986
50°	59929	67425	61222
55°	52974	62822	54422
60°	35538	56455	36528
65°	20039	46752	20039
70°	15056	22823	14565
75°	8983	10264	9615
80°	3818	4785	3818
85°	1927	1927	1927



TEST NUMBER: P253012

CATALOG NUMBER: PRS640D010-S6M24-64SWDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.8
10°-20°	451.4	11.0
20°-30°	707.3	17.3
30°-40°	864.1	21.1
40°-50°	859.1	21.0
50°-60°	678.3	16.6
60°-70°	303.6	7.4
70°-80°	70.7	1.7
80°-90°	7.4	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°	1314.4	32.1
0°-40°	2178.5	53.2
0°-60°	3715.8	90.7
0°-90°	4097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1635	1635	1639	1639	1639	155
15°	1593	1589	1593	1597	1604	450
25°	1523	1527	1539	1543	1546	700
35°	1342	1369	1415	1396	1377	837
45°	1053	1103	1165	1130	1084	812
55°	706	760	837	775	725	604
65°	197	258	459	262	197	220
75°	54	66	62	66	58	61
85°	4	4	4	4	4	7
90°	0	0	0	0	0	



TEST NUMBER: P253012

CATALOG NUMBER: PRS640D010-S6M24-64SWDH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.9	1642.9	1642.9	1642.9	1642.9
2.5°	1639.0	1642.9	1642.9	1642.9	1642.9
5°	1635.2	1635.2	1639.0	1639.0	1639.0
7.5°	1627.5	1627.5	1627.5	1631.3	1631.3
10°	1615.9	1615.9	1615.9	1619.8	1619.8
12.5°	1604.3	1604.3	1604.3	1608.2	1612.0
15°	1592.8	1588.9	1592.8	1596.6	1604.3
17.5°	1577.3	1581.2	1581.2	1588.9	1596.6
20°	1565.8	1565.8	1565.8	1577.3	1585.0
22.5°	1546.5	1546.5	1554.2	1561.9	1569.6
25°	1523.3	1527.2	1538.8	1542.6	1546.5
27.5°	1488.6	1500.2	1515.6	1519.5	1515.6
30°	1446.2	1461.6	1488.6	1484.8	1480.9
32.5°	1399.9	1419.2	1457.8	1446.2	1434.6
35°	1342.1	1369.1	1415.4	1396.1	1376.8
37.5°	1280.4	1315.1	1361.4	1342.1	1315.1
40°	1207.1	1249.5	1303.5	1276.5	1245.7
42.5°	1133.8	1180.1	1238.0	1203.2	1164.7
45°	1052.8	1103.0	1164.7	1130.0	1083.7
47.5°	975.7	1025.8	1087.5	1045.1	998.8
50°	894.7	941.0	1006.6	960.3	914.0
52.5°	794.5	856.2	921.7	871.6	817.6
55°	705.7	759.7	836.9	775.2	725.0
57.5°	555.3	663.3	748.2	674.9	570.8
60°	412.7	516.8	655.6	532.2	424.2
62.5°	285.4	381.8	563.1	385.7	289.2
65°	196.7	258.4	458.9	262.2	196.7
67.5°	146.5	173.5	308.5	173.5	146.5
70°	119.6	127.3	181.3	127.3	115.7
72.5°	88.7	100.3	100.3	100.3	92.6
75°	54.0	65.6	61.7	65.6	57.8
77.5°	23.1	30.9	38.6	34.7	23.1
80°	15.4	15.4	19.3	15.4	15.4
82.5°	11.6	11.6	11.6	11.6	11.6
85°	3.9	3.9	3.9	3.9	3.9
87.5°	3.9	3.9	3.9	3.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)