

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: P253017

Luminaire Tested: **PRS640D010-S6M24-64SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253017
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.6 lumens
Efficiency: N/A
Efficacy: 102.8 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

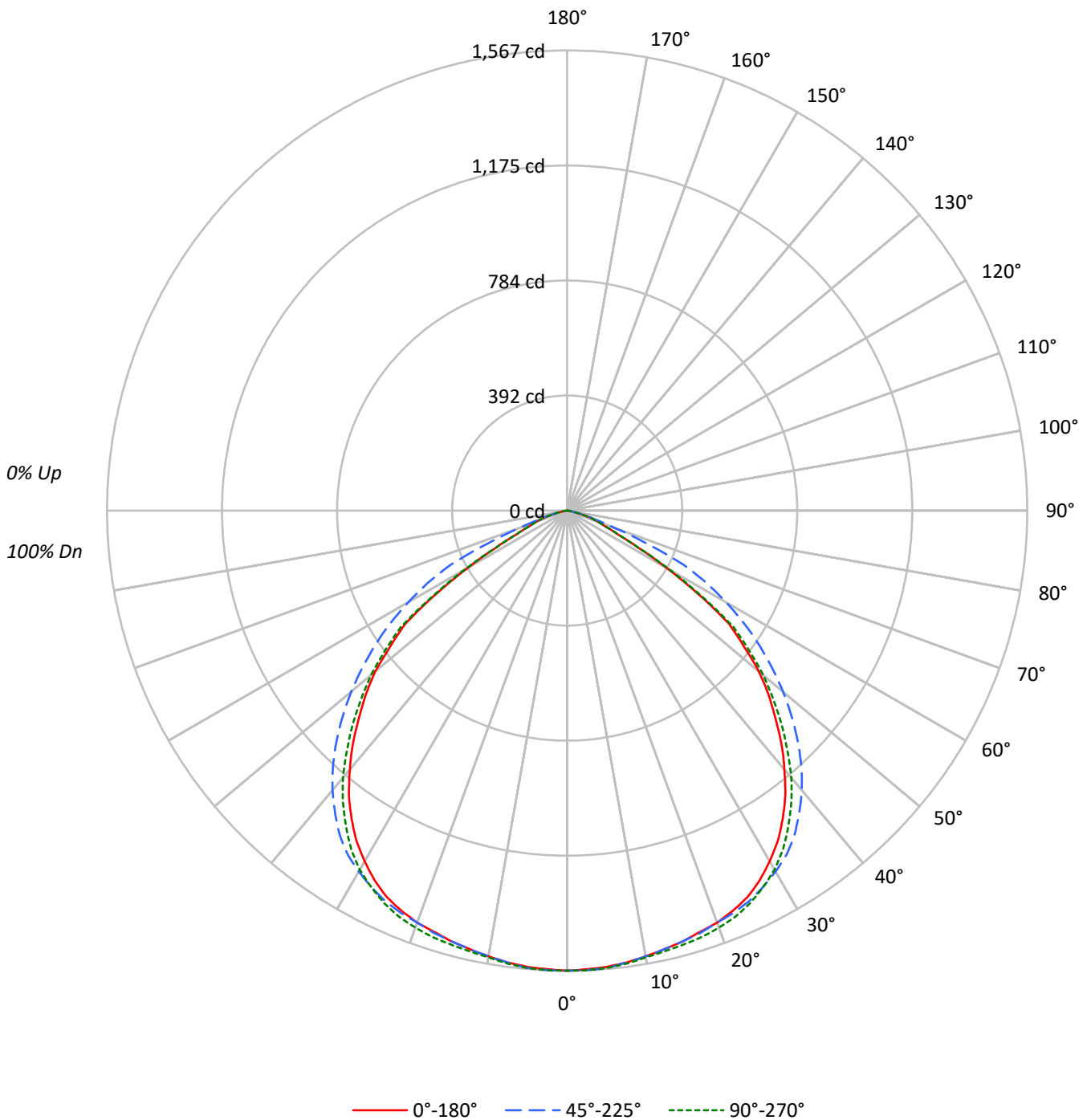
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	67455	67455	67455
5°	67397	67557	67557
10°	67372	67372	67534
15°	67704	67704	68199
20°	68417	68417	69260
25°	69013	69711	70063
30°	68569	70577	70214
35°	67273	70947	69013
40°	64698	69869	66766
45°	61133	67630	62930
50°	57150	64297	58382
55°	50519	59910	51900
60°	33885	53837	34841
65°	19112	44592	19112
70°	14351	21766	13885
75°	8567	9782	9183
80°	3645	4562	3645
85°	1828	1828	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	3.8
10°-20°	430.5	11.0
20°-30°	674.5	17.3
30°-40°	824.0	21.1
40°-50°	819.3	21.0
50°-60°	646.8	16.6
60°-70°	289.5	7.4
70°-80°	67.4	1.7
80°-90°	7.0	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°	1253.4	32.1
0°-40°	2077.5	53.2
0°-60°	3543.6	90.7
0°-90°	3907.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1559	1559	1563	1563	1563	148
15°	1519	1515	1519	1523	1530	429
25°	1453	1456	1467	1471	1475	668
35°	1280	1306	1350	1331	1313	798
45°	1004	1052	1111	1078	1034	775
55°	673	724	798	739	691	576
65°	188	246	438	250	188	210
75°	52	62	59	62	55	58
85°	4	4	4	4	4	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1563.1	1566.7	1566.7	1566.7	1566.7
5°	1559.4	1559.4	1563.1	1563.1	1563.1
7.5°	1552.0	1552.0	1552.0	1555.7	1555.7
10°	1541.0	1541.0	1541.0	1544.7	1544.7
12.5°	1530.0	1530.0	1530.0	1533.6	1537.3
15°	1518.9	1515.3	1518.9	1522.6	1530.0
17.5°	1504.2	1507.9	1507.9	1515.3	1522.6
20°	1493.2	1493.2	1493.2	1504.2	1511.6
22.5°	1474.8	1474.8	1482.2	1489.5	1496.9
25°	1452.7	1456.4	1467.4	1471.1	1474.8
27.5°	1419.6	1430.7	1445.4	1449.1	1445.4
30°	1379.2	1393.9	1419.6	1416.0	1412.3
32.5°	1335.0	1353.4	1390.2	1379.2	1368.1
35°	1279.9	1305.6	1349.8	1331.4	1313.0
37.5°	1221.0	1254.1	1298.3	1279.9	1254.1
40°	1151.1	1191.6	1243.1	1217.4	1187.9
42.5°	1081.3	1125.4	1180.6	1147.5	1110.7
45°	1004.0	1051.8	1110.7	1077.6	1033.5
47.5°	930.5	978.3	1037.1	996.7	952.5
50°	853.2	897.4	959.9	915.8	871.6
52.5°	757.6	816.5	879.0	831.2	779.7
55°	673.0	724.5	798.1	739.2	691.4
57.5°	529.6	632.6	713.5	643.6	544.3
60°	393.5	492.8	625.2	507.5	404.6
62.5°	272.2	364.1	537.0	367.8	275.8
65°	187.6	246.4	437.7	250.1	187.6
67.5°	139.8	165.5	294.2	165.5	139.8
70°	114.0	121.4	172.9	121.4	110.3
72.5°	84.6	95.6	95.6	95.6	88.3
75°	51.5	62.5	58.8	62.5	55.2
77.5°	22.1	29.4	36.8	33.1	22.1
80°	14.7	14.7	18.4	14.7	14.7
82.5°	11.0	11.0	11.0	11.0	11.0
85°	3.7	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	3.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)