

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: P238052

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 4277.3 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

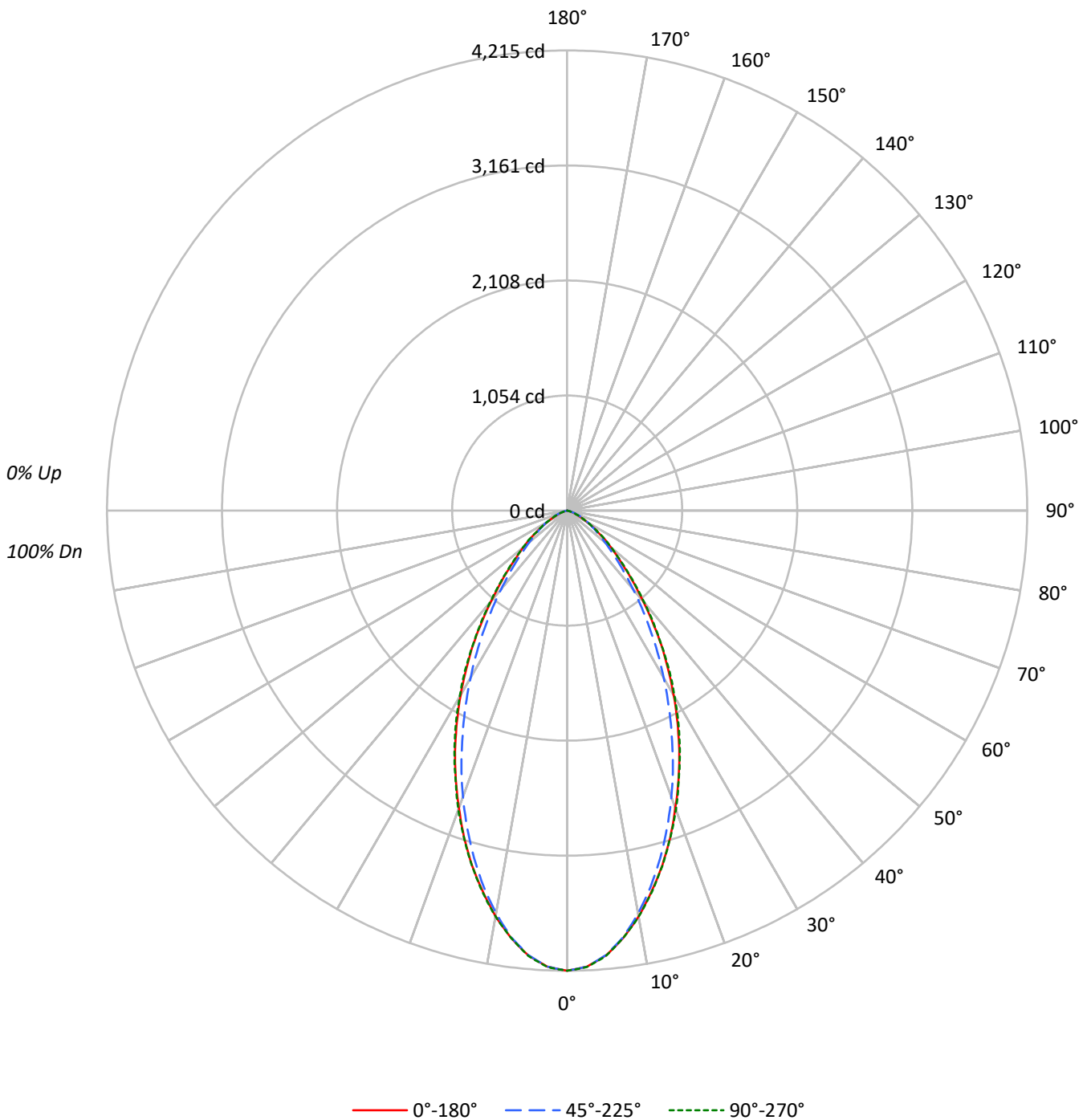
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	181480	181480	181480
5°	176788	176623	176948
10°	164959	163805	165126
15°	150002	146802	150171
20°	132733	127885	133599
25°	115370	107655	116087
30°	97076	87879	97832
35°	79010	69281	79210
40°	60713	52855	61562
45°	45765	39785	46684
50°	34911	30357	35668
55°	26085	23818	26085
60°	18213	19186	18540
65°	12317	14620	12694
70°	8560	9504	8082
75°	3776	4392	3776
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	8.9
10°-20°	927.9	21.7
20°-30°	1073.3	25.1
30°-40°	878.6	20.5
40°-50°	549.6	12.8
50°-60°	302.3	7.1
60°-70°	134.9	3.2
70°-80°	30.9	0.7
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°	2381.1	55.7
0°-40°	3259.7	76.2
0°-60°	4111.6	96.1
0°-90°	4277.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4215	4215	4215	4215	4215	
5°	4090	4087	4087	4094	4094	380
15°	3365	3327	3293	3335	3369	938
25°	2428	2334	2266	2345	2444	1110
35°	1503	1390	1318	1401	1507	935
45°	752	687	653	699	767	591
55°	348	332	317	340	348	315
65°	121	132	144	132	125	127
75°	23	26	26	26	23	27
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°	4215.0	4215.0	4215.0	4215.0	4215.0
2.5°	4181.0	4184.8	4181.0	4184.8	4184.8
5°	4090.4	4086.6	4086.6	4094.1	4094.1
7.5°	3946.8	3943.1	3939.3	3946.8	3946.8
10°	3773.1	3765.6	3746.7	3769.3	3776.9
12.5°	3572.9	3557.8	3531.4	3557.8	3580.5
15°	3365.2	3327.4	3293.4	3335.0	3369.0
17.5°	3138.6	3089.5	3044.2	3085.7	3142.4
20°	2896.9	2840.2	2791.1	2844.0	2915.8
22.5°	2666.5	2587.2	2530.5	2594.7	2670.3
25°	2428.5	2334.1	2266.1	2345.4	2443.6
27.5°	2186.8	2084.8	2013.1	2099.9	2209.5
30°	1952.6	1843.1	1767.6	1862.0	1967.8
32.5°	1718.5	1616.5	1541.0	1631.6	1744.9
35°	1503.2	1389.9	1318.1	1401.2	1507.0
37.5°	1280.4	1178.4	1121.7	1193.5	1299.2
40°	1080.2	989.5	940.4	1004.7	1095.3
42.5°	906.5	827.1	785.6	834.7	925.3
45°	751.6	687.4	653.4	698.7	766.7
47.5°	623.2	574.1	540.1	581.6	634.5
50°	521.2	475.9	453.2	483.4	532.5
52.5°	430.6	400.3	373.9	404.1	441.9
55°	347.5	332.4	317.3	339.9	347.5
57.5°	271.9	268.2	264.4	271.9	275.7
60°	211.5	215.3	222.8	215.3	215.3
62.5°	162.4	170.0	185.1	170.0	166.2
65°	120.9	132.2	143.5	132.2	124.6
67.5°	90.6	98.2	105.8	98.2	90.6
70°	68.0	71.8	75.5	71.8	64.2
72.5°	41.5	49.1	49.1	49.1	41.5
75°	22.7	26.4	26.4	26.4	22.7
77.5°	3.8	11.3	11.3	11.3	3.8
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)