

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: P238222

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 3879.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

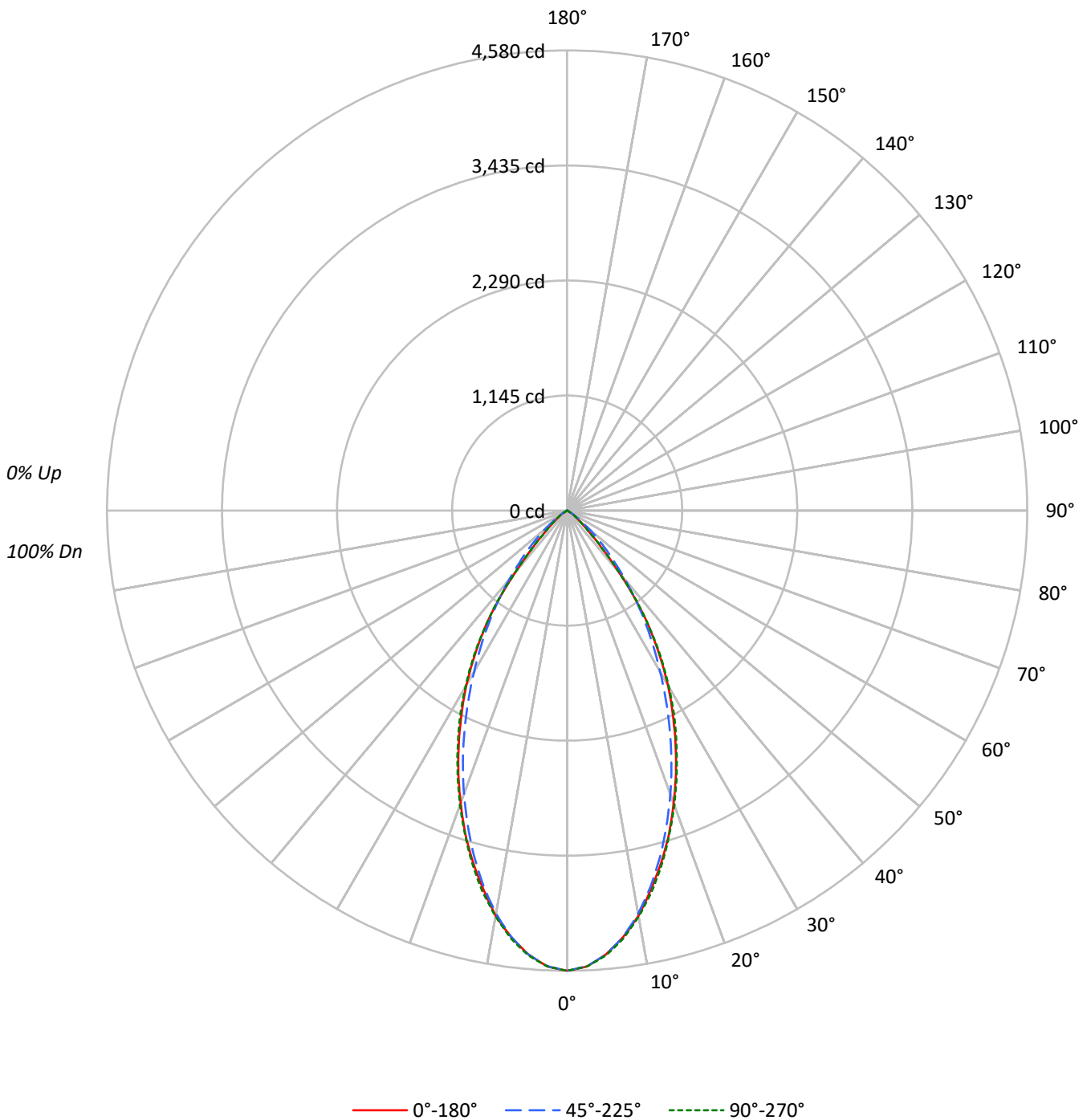
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52					52			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	197204	197204	197204
5°	191625	191625	192088
10°	179002	178062	179313
15°	161480	159091	162434
20°	141924	137502	142904
25°	121185	114904	122372
30°	99821	92005	100532
35°	75299	70984	75678
40°	45183	50602	45183
45°	21318	33063	21318
50°	11005	18903	10771
55°	6170	8317	6170
60°	2463	3694	2463
65°	723	1457	723
70°	453	453	453
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.3	10.6
10°-20°	1002.3	25.8
20°-30°	1136.8	29.3
30°-40°	859.7	22.2
40°-50°	360.9	9.3
50°-60°	93.6	2.4
60°-70°	12.0	0.3
70°-80°	1.4	0.0
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°	2551.4	65.8
0°-40°	3411.1	87.9
0°-60°	3865.6	99.7
0°-90°	3879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4580	4580	4580	4580	4580	
5°	4434	4437	4434	4441	4444	412
15°	3623	3598	3569	3605	3644	1010
25°	2551	2479	2419	2494	2576	1166
35°	1433	1372	1350	1383	1440	877
45°	350	429	543	429	350	303
55°	82	96	111	96	82	77
65°	7	4	14	4	7	8
75°	0	0	0	0	0	1
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°	4580.2	4580.2	4580.2	4580.2	4580.2
2.5°	4540.9	4537.3	4537.3	4540.9	4540.9
5°	4433.7	4437.3	4433.7	4440.8	4444.4
7.5°	4280.1	4280.1	4276.5	4283.6	4294.4
10°	4094.3	4080.0	4072.8	4087.1	4101.4
12.5°	3858.5	3847.8	3833.5	3858.5	3887.1
15°	3622.7	3597.7	3569.1	3604.8	3644.1
17.5°	3372.6	3322.6	3290.4	3336.9	3379.8
20°	3097.5	3047.5	3001.0	3051.1	3118.9
22.5°	2829.6	2758.1	2711.7	2768.8	2847.4
25°	2550.9	2479.4	2418.7	2493.7	2575.9
27.5°	2272.2	2197.2	2129.3	2211.5	2307.9
30°	2007.8	1915.0	1850.6	1936.4	2022.1
32.5°	1714.9	1629.1	1593.4	1654.1	1743.5
35°	1432.6	1371.9	1350.5	1382.6	1439.8
37.5°	1125.4	1111.1	1118.2	1132.5	1143.3
40°	803.9	871.7	900.3	875.3	803.9
42.5°	535.9	628.8	703.8	628.8	543.0
45°	350.1	428.7	543.0	428.7	350.1
47.5°	228.7	289.4	403.7	285.8	228.7
50°	164.3	192.9	282.2	192.9	160.8
52.5°	117.9	135.8	182.2	135.8	117.9
55°	82.2	96.5	110.8	96.5	82.2
57.5°	53.6	64.3	64.3	64.3	53.6
60°	28.6	39.3	42.9	39.3	28.6
62.5°	7.1	17.9	25.0	17.9	7.1
65°	7.1	3.6	14.3	3.6	7.1
67.5°	3.6	3.6	7.1	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6
72.5°	3.6	3.6	3.6	3.6	3.6
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)