

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: P238187

Luminaire Tested: **PRS640D010-S6M24-61SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.1 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

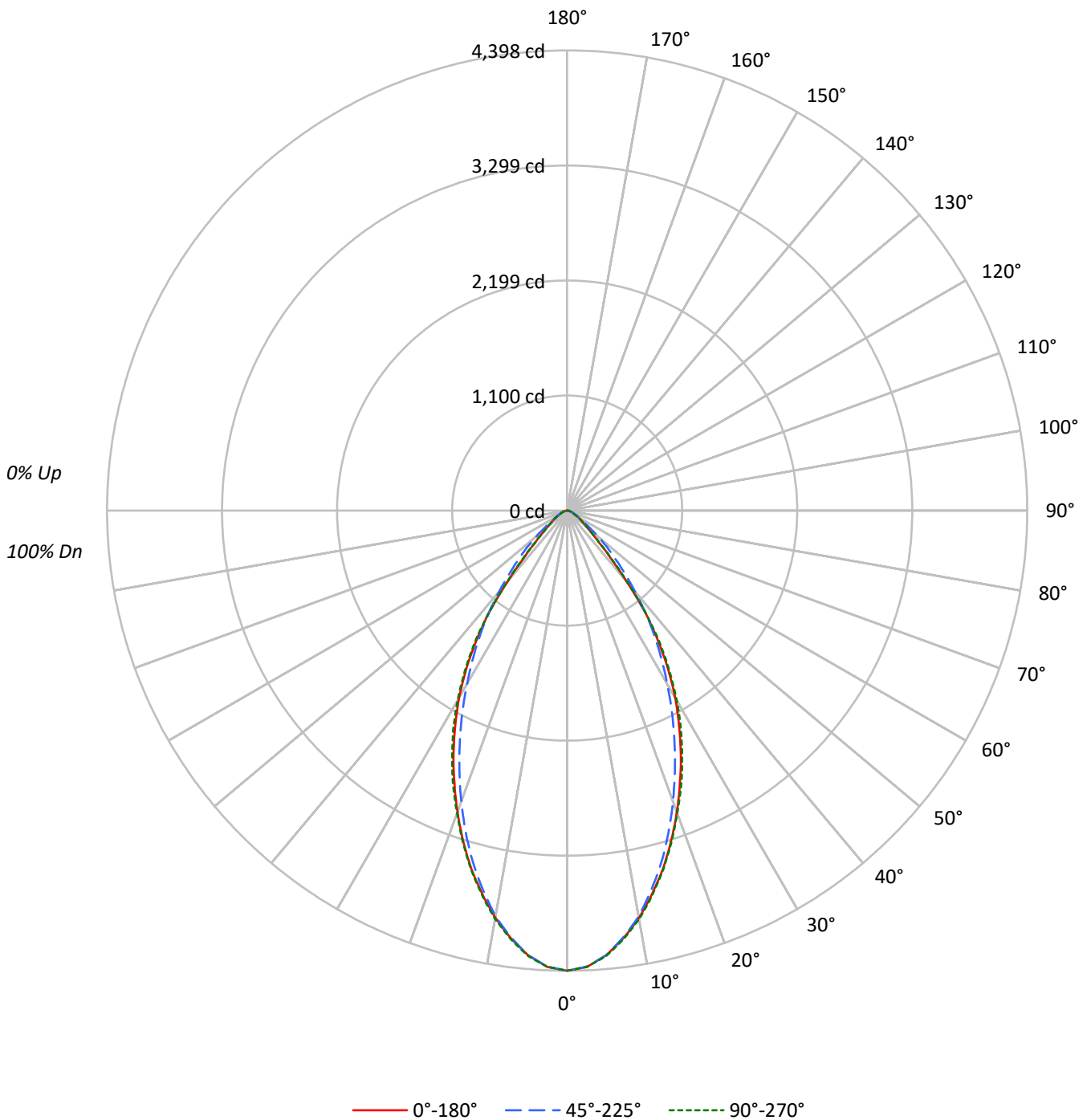
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238187

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238187

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW-4000K

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	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60					60			
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49					49			
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	189363	189363	189363
5°	184377	184377	184701
10°	172807	172147	173301
15°	157843	155150	158182
20°	140453	135441	140976
25°	122135	115318	123570
30°	102664	95157	104166
35°	79373	76198	81160
40°	49652	56863	50714
45°	26207	39536	26664
50°	16438	25795	16692
55°	12183	15021	12468
60°	9102	10402	9102
65°	6928	8079	6928
70°	6181	6659	6181
75°	5656	5656	5656
80°	4686	4686	4686
85°	3754	3754	3754



TEST NUMBER: P238187

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	9.5
10°-20°	978.1	23.5
20°-30°	1145.5	27.5
30°-40°	915.1	22.0
40°-50°	435.1	10.4
50°-60°	171.0	4.1
60°-70°	76.1	1.8
70°-80°	36.3	0.9
80°-90°	9.9	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°	2520.6	60.5
0°-40°	3435.7	82.5
0°-60°	4041.8	97.1
0°-90°	4164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4398	4398	4398	4398	4398	
5°	4266	4266	4266	4270	4274	397
15°	3541	3503	3481	3511	3549	987
25°	2571	2495	2427	2510	2601	1175
35°	1510	1453	1450	1472	1544	928
45°	430	517	649	525	438	365
55°	162	181	200	185	166	150
65°	68	72	79	72	68	70
75°	34	34	34	34	34	36
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



TEST NUMBER: P238187

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4398.1	4398.1	4398.1	4398.1	4398.1
2.5°	4364.1	4364.1	4360.3	4364.1	4364.1
5°	4266.0	4266.0	4266.0	4269.7	4273.5
7.5°	4122.5	4122.5	4115.0	4126.3	4130.1
10°	3952.6	3941.3	3937.5	3945.1	3963.9
12.5°	3752.5	3733.7	3714.8	3737.4	3763.9
15°	3541.1	3503.4	3480.7	3510.9	3548.7
17.5°	3307.1	3258.0	3224.0	3269.3	3318.4
20°	3065.4	3012.6	2956.0	3020.1	3076.8
22.5°	2816.3	2748.3	2691.7	2767.2	2846.5
25°	2570.9	2495.4	2427.4	2510.5	2601.1
27.5°	2318.0	2234.9	2167.0	2257.6	2355.7
30°	2065.0	1978.2	1914.0	2008.4	2095.2
32.5°	1793.2	1706.4	1676.2	1736.6	1819.6
35°	1510.1	1453.4	1449.7	1472.3	1544.1
37.5°	1219.4	1211.8	1223.2	1226.9	1226.9
40°	883.4	962.7	1011.7	981.5	902.3
42.5°	611.6	721.1	811.7	732.4	630.5
45°	430.4	517.2	649.3	524.8	437.9
47.5°	313.3	381.3	513.4	385.1	317.1
50°	245.4	286.9	385.1	283.1	249.2
52.5°	200.1	226.5	275.6	226.5	203.9
55°	162.3	181.2	200.1	185.0	166.1
57.5°	135.9	147.2	151.0	151.0	135.9
60°	105.7	117.0	120.8	117.0	105.7
62.5°	79.3	90.6	98.2	94.4	79.3
65°	68.0	71.7	79.3	71.7	68.0
67.5°	60.4	60.4	64.2	60.4	60.4
70°	49.1	52.9	52.9	52.9	49.1
72.5°	41.5	41.5	41.5	41.5	41.5
75°	34.0	34.0	34.0	34.0	34.0
77.5°	26.4	26.4	26.4	26.4	26.4
80°	18.9	18.9	18.9	22.7	18.9
82.5°	15.1	15.1	15.1	15.1	15.1
85°	7.6	7.6	7.6	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)