

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: P253077

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SWDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3511.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

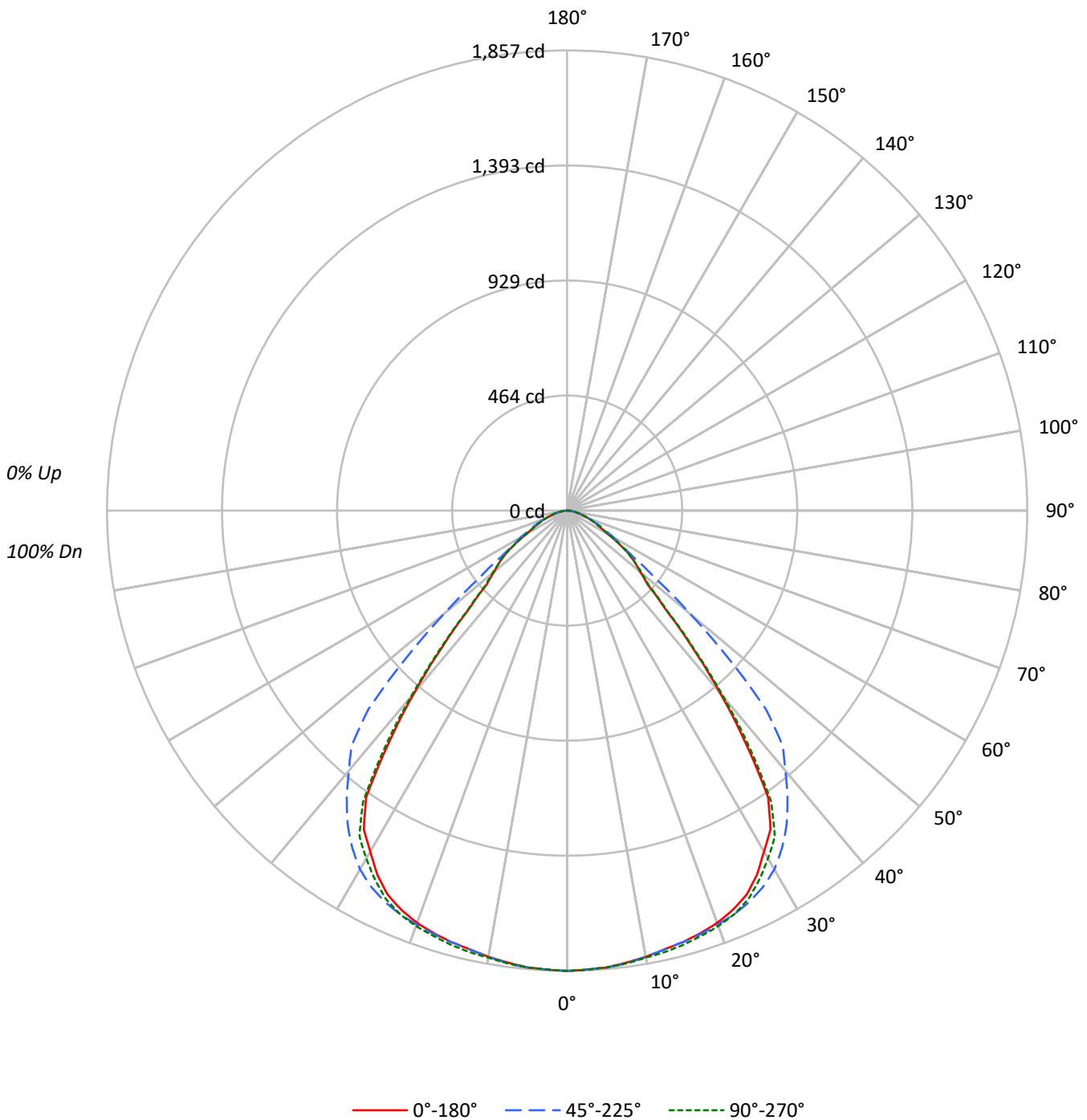
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79972	79972	79972
5°	79966	79966	79966
10°	79937	79937	80095
15°	80363	80363	80849
20°	81109	81443	81773
25°	81331	82714	82196
30°	78974	83131	80600
35°	74322	81197	75467
40°	53934	77024	55160
45°	33861	69055	34525
50°	25808	43338	26297
55°	22647	24284	22647
60°	16594	18471	16594
65°	13703	14813	13703
70°	11443	11896	11443
75°	9682	9682	9682
80°	8108	8108	8108
85°	7163	7163	7163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	5.0
10°-20°	511.0	14.6
20°-30°	795.1	22.6
30°-40°	908.6	25.9
40°-50°	607.9	17.3
50°-60°	290.9	8.3
60°-70°	141.8	4.0
70°-80°	63.8	1.8
80°-90°	16.3	0.5
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°	1482.0	42.2
0°-40°	2390.6	68.1
0°-60°	3289.4	93.7
0°-90°	3511.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1850	1850	1850	1850	1850	176
15°	1803	1803	1803	1810	1814	510
25°	1712	1723	1741	1738	1730	784
35°	1414	1494	1545	1516	1436	840
45°	556	716	1134	727	567	461
55°	302	324	324	327	302	263
65°	134	138	145	138	134	135
75°	58	58	58	58	58	62
85°	14	14	14	14	14	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.4	1857.4	1857.4	1857.4	1857.4
2.5°	1853.8	1853.8	1853.8	1853.8	1853.8
5°	1850.2	1850.2	1850.2	1850.2	1850.2
7.5°	1839.3	1839.3	1842.9	1839.3	1842.9
10°	1828.4	1828.4	1828.4	1832.0	1832.0
12.5°	1813.8	1813.8	1813.8	1821.1	1824.7
15°	1802.9	1802.9	1802.9	1810.2	1813.8
17.5°	1788.4	1788.4	1792.0	1799.3	1799.3
20°	1770.2	1773.8	1777.5	1784.7	1784.7
22.5°	1744.8	1752.0	1762.9	1766.6	1762.9
25°	1712.0	1722.9	1741.1	1737.5	1730.2
27.5°	1657.5	1683.0	1712.0	1697.5	1679.3
30°	1588.5	1628.4	1672.1	1643.0	1621.2
32.5°	1526.7	1559.4	1613.9	1581.2	1559.4
35°	1414.0	1493.9	1544.8	1515.8	1435.8
37.5°	1185.0	1363.1	1461.2	1384.9	1214.1
40°	959.6	1148.6	1370.4	1163.2	981.4
42.5°	745.2	926.9	1286.8	941.4	759.7
45°	556.1	716.1	1134.1	727.0	567.0
47.5°	439.8	530.7	883.3	541.6	447.1
50°	385.3	421.6	647.0	428.9	392.6
52.5°	345.3	367.1	450.7	370.8	345.3
55°	301.7	323.5	323.5	327.1	301.7
57.5°	243.5	276.3	254.4	276.3	247.2
60°	192.7	218.1	214.5	218.1	192.7
62.5°	156.3	170.8	174.5	170.8	156.3
65°	134.5	138.1	145.4	138.1	134.5
67.5°	112.7	116.3	116.3	116.3	109.0
70°	90.9	94.5	94.5	94.5	90.9
72.5°	72.7	76.3	76.3	76.3	72.7
75°	58.2	58.2	58.2	58.2	58.2
77.5°	43.6	47.3	43.6	47.3	43.6
80°	32.7	32.7	32.7	32.7	32.7
82.5°	21.8	21.8	21.8	21.8	21.8
85°	14.5	14.5	14.5	14.5	14.5
87.5°	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)