

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: P253072

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253072
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 96.9 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

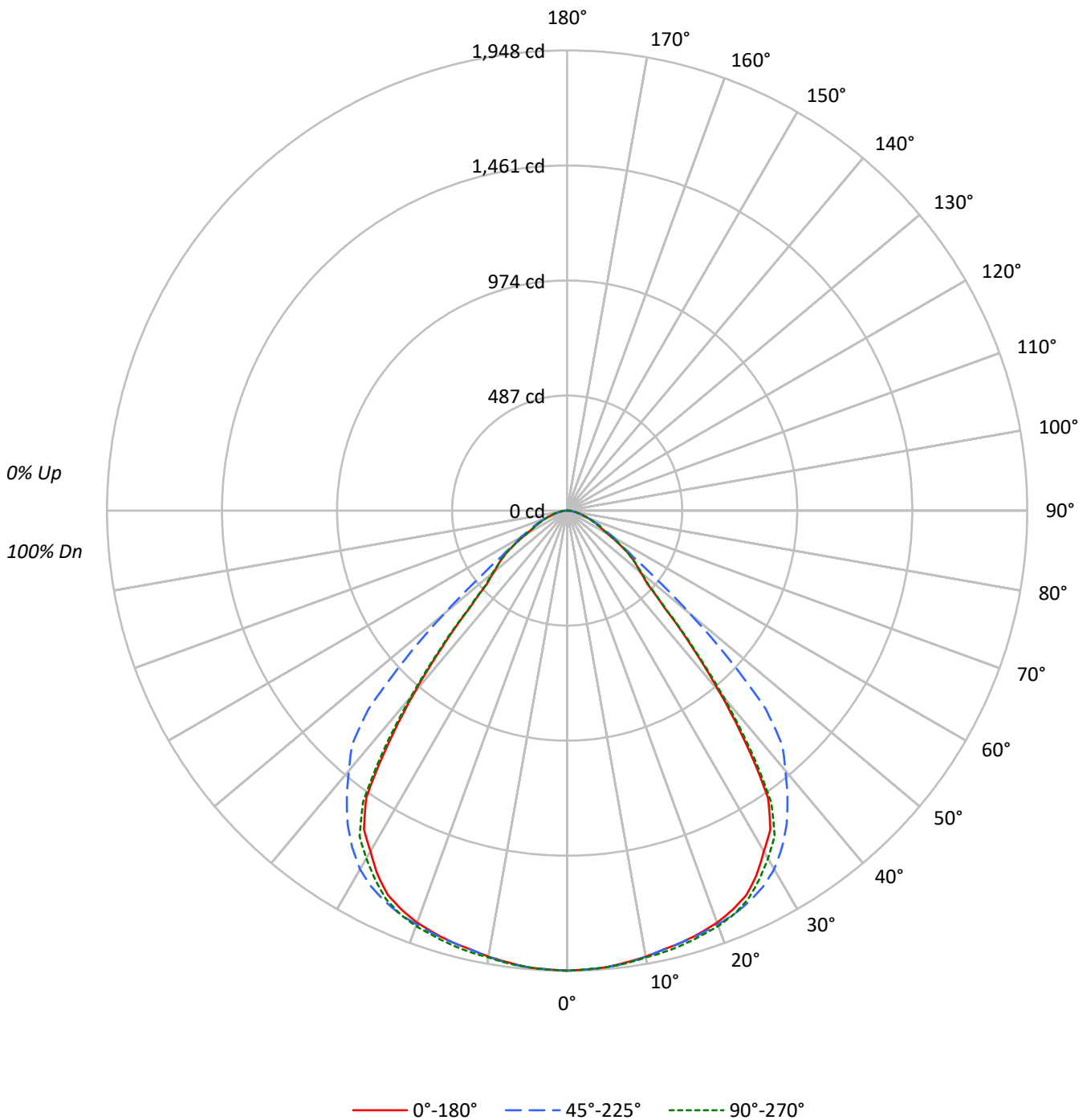
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83860	83860	83860
5°	83851	83851	83851
10°	83820	83820	83986
15°	84268	84268	84781
20°	85049	85402	85750
25°	85289	86733	86191
30°	82813	87168	84518
35°	77933	85144	79136
40°	56559	80767	57841
45°	35511	72410	36205
50°	27061	45448	27577
55°	23751	25462	23751
60°	17394	19366	17394
65°	14365	15536	14365
70°	11997	12475	11997
75°	10148	10148	10148
80°	8505	8505	8505
85°	7509	7509	7509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	5.0
10°-20°	535.8	14.6
20°-30°	833.8	22.6
30°-40°	952.8	25.9
40°-50°	637.4	17.3
50°-60°	305.1	8.3
60°-70°	148.7	4.0
70°-80°	66.9	1.8
80°-90°	17.1	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°	1554.0	42.2
0°-40°	2506.8	68.1
0°-60°	3449.3	93.7
0°-90°	3682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1940	1940	1940	1940	1940	184
15°	1890	1890	1890	1898	1902	535
25°	1795	1807	1826	1822	1814	822
35°	1483	1567	1620	1589	1506	881
45°	583	751	1189	762	595	483
55°	316	339	339	343	316	276
65°	141	145	152	145	141	141
75°	61	61	61	61	61	65
85°	15	15	15	15	15	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.7	1947.7	1947.7	1947.7	1947.7
2.5°	1943.9	1943.9	1943.9	1943.9	1943.9
5°	1940.1	1940.1	1940.1	1940.1	1940.1
7.5°	1928.7	1928.7	1932.5	1928.7	1932.5
10°	1917.2	1917.2	1917.2	1921.0	1921.0
12.5°	1902.0	1902.0	1902.0	1909.6	1913.4
15°	1890.5	1890.5	1890.5	1898.2	1902.0
17.5°	1875.3	1875.3	1879.1	1886.7	1886.7
20°	1856.2	1860.1	1863.9	1871.5	1871.5
22.5°	1829.6	1837.2	1848.6	1852.4	1848.6
25°	1795.3	1806.7	1825.7	1821.9	1814.3
27.5°	1738.1	1764.8	1795.3	1780.0	1761.0
30°	1665.7	1707.6	1753.3	1722.8	1700.0
32.5°	1600.9	1635.2	1692.3	1658.0	1635.2
35°	1482.7	1566.6	1619.9	1589.4	1505.6
37.5°	1242.6	1429.3	1532.3	1452.2	1273.1
40°	1006.3	1204.5	1437.0	1219.7	1029.1
42.5°	781.4	972.0	1349.3	987.2	796.6
45°	583.2	750.9	1189.2	762.3	594.6
47.5°	461.2	556.5	926.2	567.9	468.8
50°	404.0	442.1	678.5	449.8	411.7
52.5°	362.1	385.0	472.6	388.8	362.1
55°	316.4	339.2	339.2	343.0	316.4
57.5°	255.4	289.7	266.8	289.7	259.2
60°	202.0	228.7	224.9	228.7	202.0
62.5°	163.9	179.1	183.0	179.1	163.9
65°	141.0	144.8	152.5	144.8	141.0
67.5°	118.2	122.0	122.0	122.0	114.3
70°	95.3	99.1	99.1	99.1	95.3
72.5°	76.2	80.0	80.0	80.0	76.2
75°	61.0	61.0	61.0	61.0	61.0
77.5°	45.7	49.6	45.7	49.6	45.7
80°	34.3	34.3	34.3	34.3	34.3
82.5°	22.9	22.9	22.9	22.9	22.9
85°	15.2	15.2	15.2	15.2	15.2
87.5°	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)