

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: SHAPER

Report Number: P241181

Luminaire Tested: **1800-X-80-L35-4-W-UNV-STD-X-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P241181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL90337-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1800-X-80-L35-4-W-UNV-STD-X-X
Description: SHAPER 1800 SERIES LED PENDANT DIRECT DOWNLIGHT
WIDE DISTRIBUTION
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7048.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.48 / 1.61
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

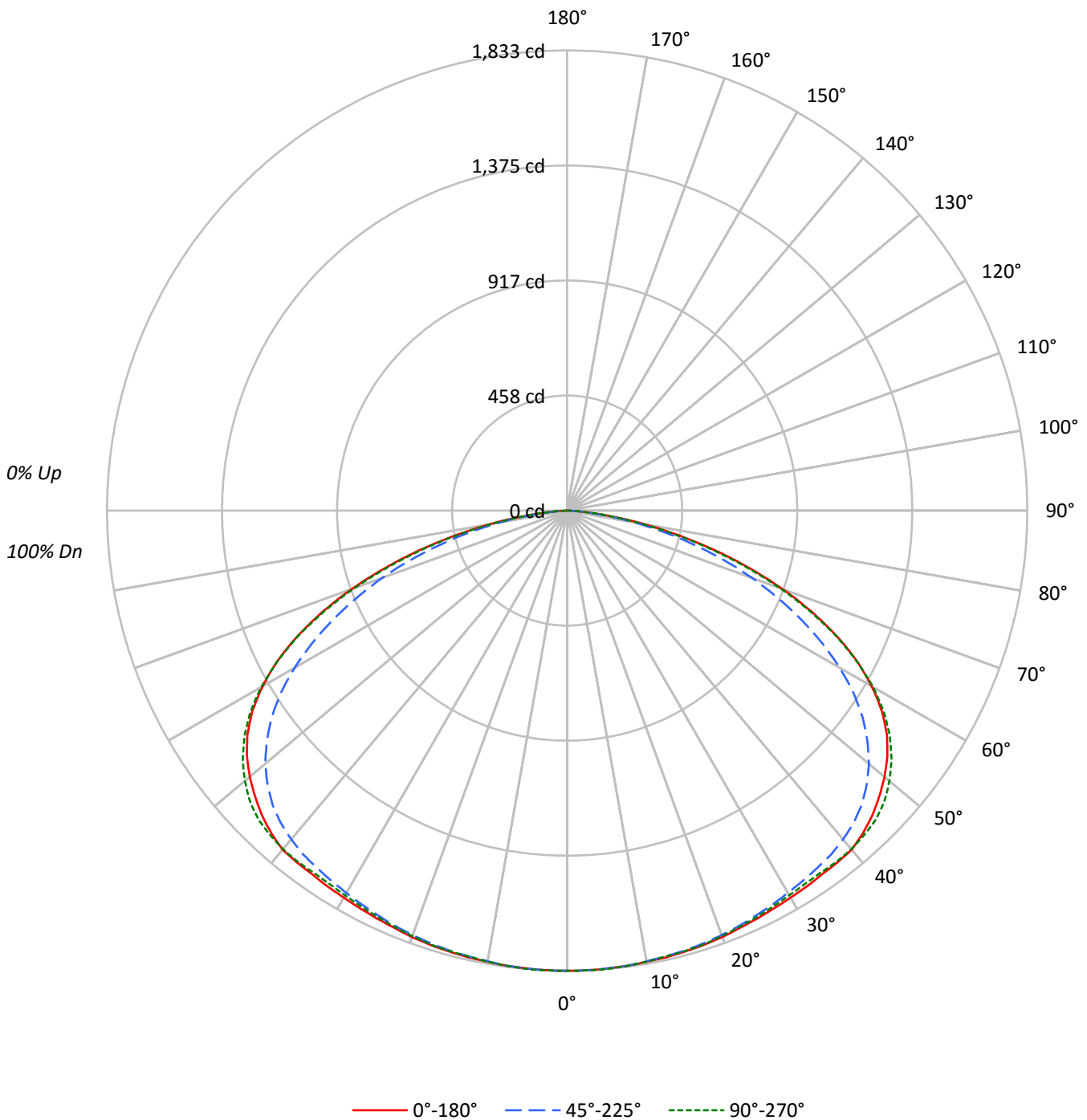
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	62	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	43	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	37	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18458	18458	18458
5°	18507	18507	18529
10°	18655	18634	18655
15°	18954	18910	18931
20°	19369	19278	19324
25°	19917	19776	19847
30°	20696	20448	20572
35°	21749	21357	21644
40°	23173	22474	23144
45°	24468	23621	24771
50°	25851	24584	26251
55°	27291	25237	27550
60°	28221	25267	28350
65°	28273	24523	28171
70°	26858	23040	26546
75°	23580	20269	23000
80°	18126	15662	17511
85°	9577	7868	9092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	2.5
10°-20°	514.0	7.3
20°-30°	825.6	11.7
30°-40°	1100.4	15.6
40°-50°	1306.0	18.5
50°-60°	1334.9	18.9
60°-70°	1088.3	15.4
70°-80°	593.7	8.4
80°-90°	110.6	1.6
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°	1514.1	21.5
0°-40°	2614.5	37.1
0°-60°	5255.4	74.6
0°-90°	7048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1831	1831	1831	1831	1833	175
15°	1818	1816	1814	1814	1816	515
25°	1793	1786	1780	1784	1786	830
35°	1769	1757	1738	1750	1761	1112
45°	1718	1688	1659	1703	1740	1326
55°	1555	1495	1438	1508	1569	1383
65°	1187	1108	1029	1106	1182	1164
75°	606	561	521	561	591	642
85°	83	79	68	77	79	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.2	1833.2	1833.2	1833.2	1833.2
2.5°	1833.2	1833.2	1833.2	1833.2	1833.2
5°	1831.0	1831.0	1831.0	1831.0	1833.2
7.5°	1828.9	1828.9	1828.9	1828.9	1828.9
10°	1824.6	1824.6	1822.5	1822.5	1824.6
12.5°	1822.5	1820.4	1818.3	1818.3	1818.3
15°	1818.3	1816.1	1814.0	1814.0	1816.1
17.5°	1814.0	1809.8	1807.6	1807.6	1811.9
20°	1807.6	1801.3	1799.1	1801.3	1803.4
22.5°	1799.1	1794.9	1790.6	1792.7	1794.9
25°	1792.7	1786.4	1780.0	1784.2	1786.4
27.5°	1786.4	1777.9	1769.4	1773.6	1777.9
30°	1780.0	1769.4	1758.7	1763.0	1769.4
32.5°	1775.7	1763.0	1748.1	1756.6	1763.0
35°	1769.4	1756.6	1737.5	1750.2	1760.8
37.5°	1767.2	1748.1	1726.8	1743.8	1763.0
40°	1763.0	1735.3	1709.8	1737.5	1760.8
42.5°	1743.8	1716.2	1688.5	1722.6	1752.3
45°	1718.3	1688.5	1658.8	1703.4	1739.6
47.5°	1686.4	1654.5	1618.4	1671.5	1714.1
50°	1650.3	1609.9	1569.4	1626.9	1675.8
52.5°	1607.7	1556.7	1507.8	1573.7	1629.0
55°	1554.6	1495.0	1437.6	1507.8	1569.4
57.5°	1486.5	1420.6	1352.5	1429.1	1497.1
60°	1401.4	1331.3	1254.7	1333.4	1407.8
62.5°	1303.6	1224.9	1146.3	1229.2	1301.5
65°	1186.7	1108.0	1029.3	1105.8	1182.4
67.5°	1054.8	978.2	908.1	976.1	1046.3
70°	912.3	844.3	782.6	840.0	901.7
72.5°	761.3	703.9	652.9	701.8	746.4
75°	606.1	561.4	521.0	561.4	591.2
77.5°	455.1	421.1	393.4	425.3	442.3
80°	312.6	291.3	270.1	293.5	302.0
82.5°	185.0	176.5	159.5	174.4	178.6
85°	82.9	78.7	68.1	76.6	78.7
87.5°	14.9	12.8	10.6	12.8	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)