

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: P241179

Luminaire Tested: **1800-X-80-L30-4-W-UNV-STD-X-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P241179
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-L30-4-W-UNV-STD-X-X
Description: SHAPER 1800 SERIES LED PENDANT DIRECT DOWNLIGHT
WIDE DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6649.3 lumens
Efficiency: N/A
Efficacy: 80.2 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

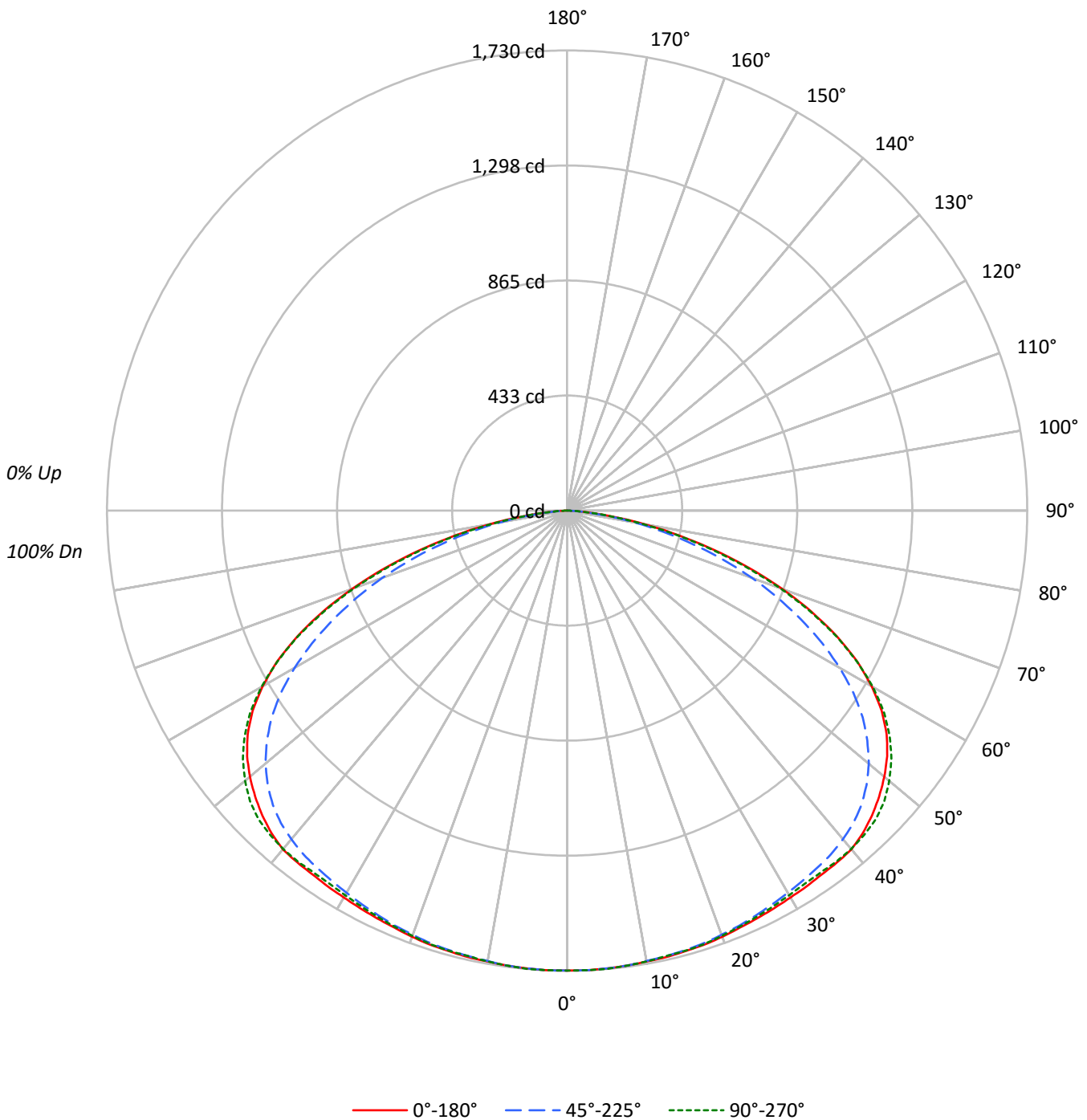
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17414	17414	17414
5°	17460	17460	17481
10°	17600	17580	17600
15°	17882	17840	17861
20°	18274	18188	18231
25°	18790	18657	18724
30°	19525	19291	19408
35°	20519	20149	20419
40°	21861	21203	21835
45°	23084	22284	23370
50°	24388	23195	24766
55°	25746	23810	25993
60°	26626	23837	26747
65°	26672	23137	26577
70°	25339	21735	25044
75°	22245	19125	21700
80°	17100	14775	16520
85°	9034	7417	8572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	2.5
10°-20°	484.9	7.3
20°-30°	778.9	11.7
30°-40°	1038.1	15.6
40°-50°	1232.1	18.5
50°-60°	1259.4	18.9
60°-70°	1026.8	15.4
70°-80°	560.1	8.4
80°-90°	104.4	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°	1428.5	21.5
0°-40°	2466.6	37.1
0°-60°	4958.1	74.6
0°-90°	6649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6649.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1727	1727	1727	1727	1730	165
15°	1715	1713	1711	1711	1713	486
25°	1691	1685	1679	1683	1685	783
35°	1669	1657	1639	1651	1661	1049
45°	1621	1593	1565	1607	1641	1251
55°	1467	1410	1356	1422	1481	1305
65°	1120	1045	971	1043	1116	1098
75°	572	530	492	530	558	605
85°	78	74	64	72	74	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.5	1729.5	1729.5	1729.5	1729.5
2.5°	1729.5	1729.5	1729.5	1729.5	1729.5
5°	1727.4	1727.4	1727.4	1727.4	1729.5
7.5°	1725.4	1725.4	1725.4	1725.4	1725.4
10°	1721.4	1721.4	1719.4	1719.4	1721.4
12.5°	1719.4	1717.4	1715.4	1715.4	1715.4
15°	1715.4	1713.4	1711.4	1711.4	1713.4
17.5°	1711.4	1707.4	1705.4	1705.4	1709.4
20°	1705.4	1699.4	1697.4	1699.4	1701.4
22.5°	1697.4	1693.3	1689.3	1691.3	1693.3
25°	1691.3	1685.3	1679.3	1683.3	1685.3
27.5°	1685.3	1677.3	1669.3	1673.3	1677.3
30°	1679.3	1669.3	1659.2	1663.2	1669.3
32.5°	1675.3	1663.2	1649.2	1657.2	1663.2
35°	1669.3	1657.2	1639.2	1651.2	1661.2
37.5°	1667.3	1649.2	1629.1	1645.2	1663.2
40°	1663.2	1637.2	1613.1	1639.2	1661.2
42.5°	1645.2	1619.1	1593.0	1625.1	1653.2
45°	1621.1	1593.0	1564.9	1607.1	1641.2
47.5°	1591.0	1560.9	1526.8	1577.0	1617.1
50°	1556.9	1518.8	1480.7	1534.8	1581.0
52.5°	1516.8	1468.6	1422.5	1484.7	1536.8
55°	1466.6	1410.4	1356.3	1422.5	1480.7
57.5°	1402.4	1340.2	1276.0	1348.3	1412.5
60°	1322.2	1256.0	1183.7	1258.0	1328.2
62.5°	1229.9	1155.6	1081.4	1159.7	1227.9
65°	1119.5	1045.3	971.1	1043.3	1115.5
67.5°	995.1	922.9	856.7	920.9	987.1
70°	860.7	796.5	738.3	792.5	850.7
72.5°	718.3	664.1	615.9	662.1	704.2
75°	571.8	529.7	491.6	529.7	557.8
77.5°	429.4	397.3	371.2	401.3	417.3
80°	294.9	274.9	254.8	276.9	284.9
82.5°	174.6	166.5	150.5	164.5	168.5
85°	78.2	74.2	64.2	72.2	74.2
87.5°	14.0	12.0	10.0	12.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)