

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: P241173

Luminaire Tested: **1800-X-80-L35-3-W-UNV-STD-X-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241173  
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-L35-3-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: 6204.4 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

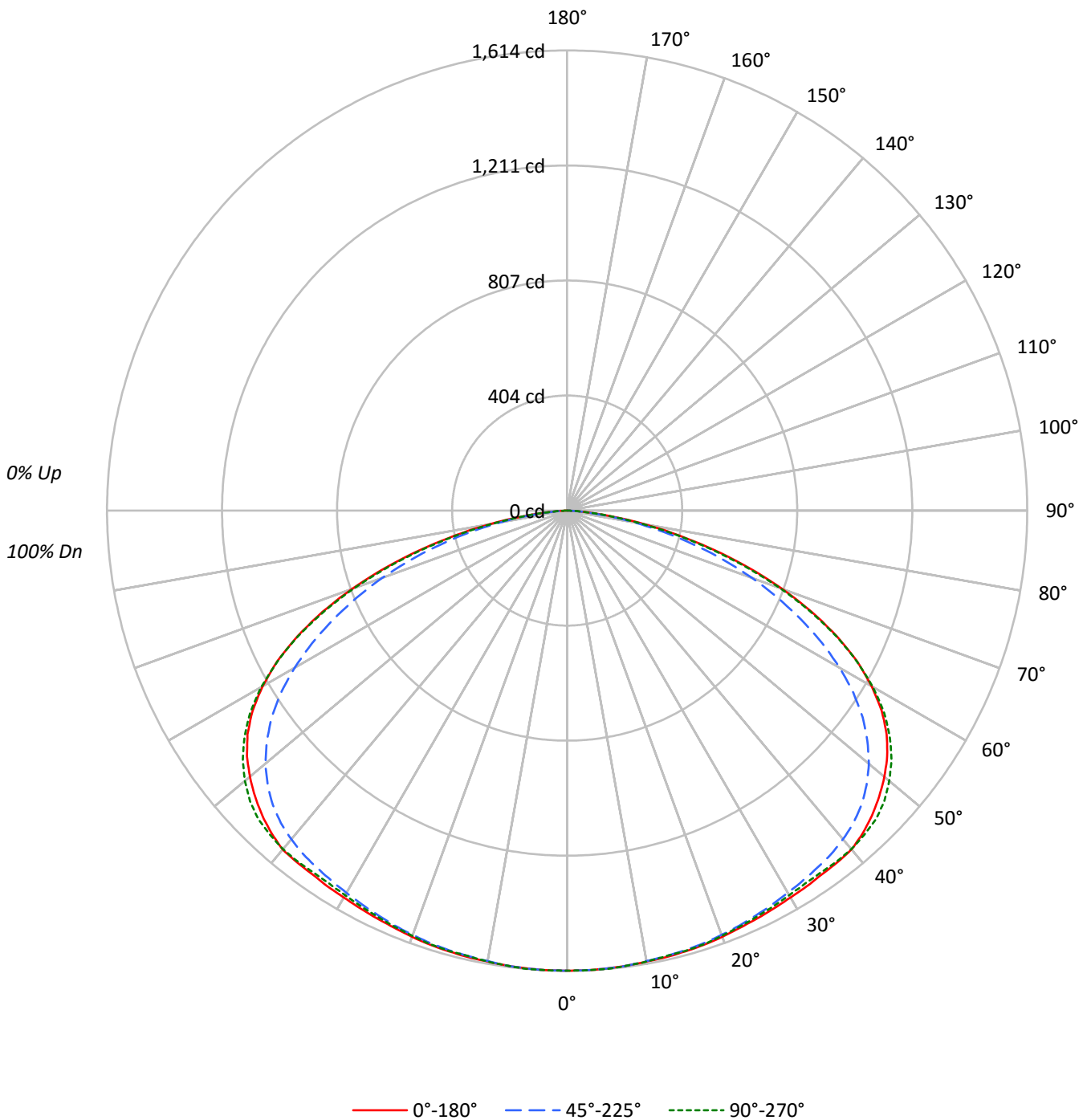
Input Watts (W): 70.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16248	16248	16248
5°	16292	16292	16310
10°	16422	16404	16422
15°	16685	16646	16666
20°	17051	16971	17010
25°	17534	17408	17470
30°	18218	18000	18110
35°	19146	18801	19054
40°	20400	19785	20375
45°	21539	20793	21807
50°	22756	21642	23108
55°	24024	22216	24254
60°	24844	22242	24957
65°	24888	21588	24800
70°	23643	20281	23369
75°	20755	17845	20245
80°	15957	13789	15412
85°	8434	6920	8006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	2.5
10°-20°	452.4	7.3
20°-30°	726.8	11.7
30°-40°	968.7	15.6
40°-50°	1149.6	18.5
50°-60°	1175.1	18.9
60°-70°	958.1	15.4
70°-80°	522.6	8.4
80°-90°	97.4	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°	1332.9	21.5
0°-40°	2301.6	37.1
0°-60°	4626.3	74.6
0°-90°	6204.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6204.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1612	1612	1612	1612	1614	154
15°	1601	1599	1597	1597	1599	453
25°	1578	1572	1567	1571	1572	730
35°	1558	1546	1530	1541	1550	979
45°	1513	1486	1460	1500	1531	1167
55°	1368	1316	1266	1327	1382	1217
65°	1045	975	906	974	1041	1024
75°	534	494	459	494	520	565
85°	73	69	60	67	69	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1613.7	1613.7	1613.7	1613.7	1613.7
5°	1611.9	1611.9	1611.9	1611.9	1613.7
7.5°	1610.0	1610.0	1610.0	1610.0	1610.0
10°	1606.2	1606.2	1604.4	1604.4	1606.2
12.5°	1604.4	1602.5	1600.6	1600.6	1600.6
15°	1600.6	1598.8	1596.9	1596.9	1598.8
17.5°	1596.9	1593.1	1591.3	1591.3	1595.0
20°	1591.3	1585.7	1583.8	1585.7	1587.5
22.5°	1583.8	1580.0	1576.3	1578.2	1580.0
25°	1578.2	1572.5	1566.9	1570.7	1572.5
27.5°	1572.5	1565.1	1557.6	1561.3	1565.1
30°	1566.9	1557.6	1548.2	1552.0	1557.6
32.5°	1563.2	1552.0	1538.9	1546.3	1552.0
35°	1557.6	1546.3	1529.5	1540.7	1550.1
37.5°	1555.7	1538.9	1520.1	1535.1	1552.0
40°	1552.0	1527.6	1505.2	1529.5	1550.1
42.5°	1535.1	1510.8	1486.4	1516.4	1542.6
45°	1512.6	1486.4	1460.2	1499.5	1531.4
47.5°	1484.6	1456.5	1424.7	1471.5	1508.9
50°	1452.7	1417.2	1381.6	1432.1	1475.2
52.5°	1415.3	1370.4	1327.3	1385.3	1434.0
55°	1368.5	1316.1	1265.5	1327.3	1381.6
57.5°	1308.6	1250.6	1190.6	1258.0	1317.9
60°	1233.7	1171.9	1104.5	1173.8	1239.3
62.5°	1147.6	1078.3	1009.1	1082.1	1145.7
65°	1044.6	975.4	906.1	973.5	1040.9
67.5°	928.6	861.2	799.4	859.3	921.1
70°	803.1	743.2	688.9	739.5	793.8
72.5°	670.2	619.7	574.7	617.8	657.1
75°	533.5	494.2	458.7	494.2	520.4
77.5°	400.6	370.7	346.3	374.4	389.4
80°	275.2	256.5	237.8	258.3	265.8
82.5°	162.9	155.4	140.4	153.5	157.3
85°	73.0	69.3	59.9	67.4	69.3
87.5°	13.1	11.2	9.4	11.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)