

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: P241163

Luminaire Tested: **1800-X-80-L30-2-W-UNV-STD-X-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241163  
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-L30-2-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**

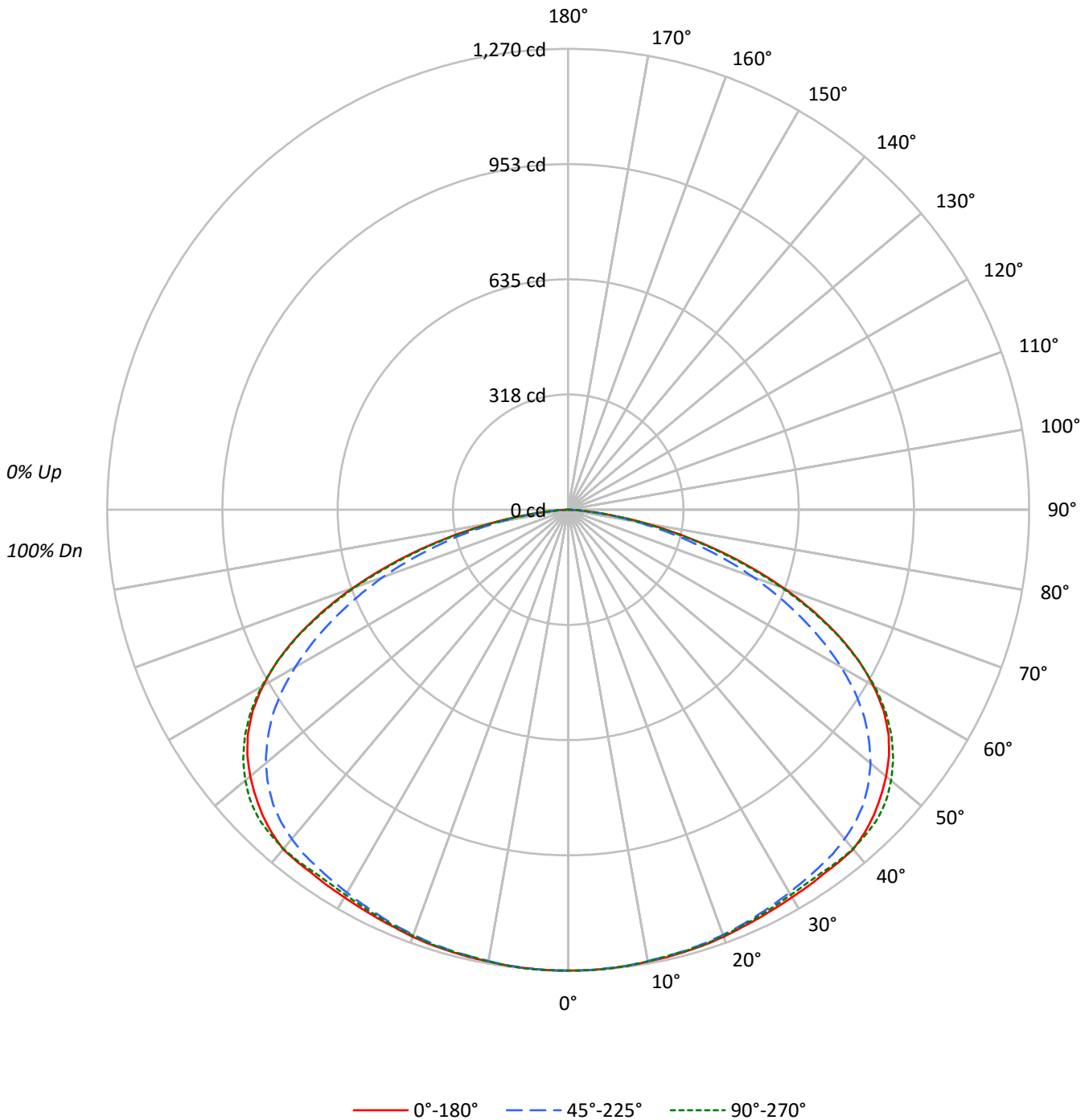
Lumens per Lamp: N/A  
Luminaire Lumens: 4883.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 1.48 / 1.61  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.9  
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°	12790	12790	12790
5°	12823	12823	12839
10°	12927	12911	12927
15°	13132	13102	13118
20°	13421	13358	13389
25°	13801	13702	13751
30°	14339	14168	14254
35°	15070	14798	14997
40°	16056	15572	16037
45°	16954	16366	17163
50°	17911	17034	18188
55°	18908	17486	19089
60°	19554	17508	19645
65°	19589	16992	19520
70°	18609	15962	18394
75°	16336	14044	15935
80°	12560	10849	12130
85°	6643	5453	6296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	2.5
10°-20°	356.1	7.3
20°-30°	572.0	11.7
30°-40°	762.4	15.6
40°-50°	904.9	18.5
50°-60°	924.9	18.9
60°-70°	754.1	15.4
70°-80°	411.4	8.4
80°-90°	76.6	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°	1049.1	21.5
0°-40°	1811.6	37.1
0°-60°	3641.3	74.6
0°-90°	4883.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4883.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1269	1269	1269	1269	1270	121
15°	1260	1258	1257	1257	1258	357
25°	1242	1238	1233	1236	1238	575
35°	1226	1217	1204	1213	1220	771
45°	1191	1170	1149	1180	1205	919
55°	1077	1036	996	1045	1087	958
65°	822	768	713	766	819	806
75°	420	389	361	389	410	445
85°	58	54	47	53	54	83
90°	0	0	0	0	0	



TEST NUMBER: P241163

CATALOG NUMBER: 1800-X-80-L30-2-W-UNV-STD-X-X

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1270.2	1270.2	1270.2	1270.2	1270.2
2.5°	1270.2	1270.2	1270.2	1270.2	1270.2
5°	1268.7	1268.7	1268.7	1268.7	1270.2
7.5°	1267.2	1267.2	1267.2	1267.2	1267.2
10°	1264.3	1264.3	1262.8	1262.8	1264.3
12.5°	1262.8	1261.3	1259.8	1259.8	1259.8
15°	1259.8	1258.4	1256.9	1256.9	1258.4
17.5°	1256.9	1253.9	1252.5	1252.5	1255.4
20°	1252.5	1248.1	1246.6	1248.1	1249.5
22.5°	1246.6	1243.6	1240.7	1242.2	1243.6
25°	1242.2	1237.7	1233.3	1236.3	1237.7
27.5°	1237.7	1231.8	1226.0	1228.9	1231.8
30°	1233.3	1226.0	1218.6	1221.5	1226.0
32.5°	1230.4	1221.5	1211.2	1217.1	1221.5
35°	1226.0	1217.1	1203.9	1212.7	1220.1
37.5°	1224.5	1211.2	1196.5	1208.3	1221.5
40°	1221.5	1202.4	1184.7	1203.9	1220.1
42.5°	1208.3	1189.1	1170.0	1193.5	1214.2
45°	1190.6	1170.0	1149.3	1180.3	1205.3
47.5°	1168.5	1146.4	1121.3	1158.2	1187.6
50°	1143.4	1115.4	1087.4	1127.2	1161.1
52.5°	1114.0	1078.6	1044.7	1090.4	1128.7
55°	1077.1	1035.9	996.1	1044.7	1087.4
57.5°	1030.0	984.3	937.1	990.2	1037.3
60°	971.0	922.4	869.4	923.9	975.5
62.5°	903.3	848.7	794.2	851.7	901.8
65°	822.2	767.7	713.2	766.2	819.3
67.5°	730.9	677.8	629.2	676.3	725.0
70°	632.1	585.0	542.2	582.0	624.8
72.5°	527.5	487.7	452.4	486.3	517.2
75°	419.9	389.0	361.0	389.0	409.6
77.5°	315.3	291.8	272.6	294.7	306.5
80°	216.6	201.9	187.1	203.3	209.2
82.5°	128.2	122.3	110.5	120.8	123.8
85°	57.5	54.5	47.2	53.0	54.5
87.5°	10.3	8.8	7.4	8.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)