

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: P241153

Luminaire Tested: **1800-X-80-L27-1-W-UNV-STD-X-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P241153
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-L27-1-W-UNV-STD-X-X
Description: SHAPER 1800 SERIES LED PENDANT DIRECT DOWNLIGHT
WIDE DISTRIBUTION
Light Source: (168) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3733.9 lumens
Efficiency: N/A
Efficacy: 89.3 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

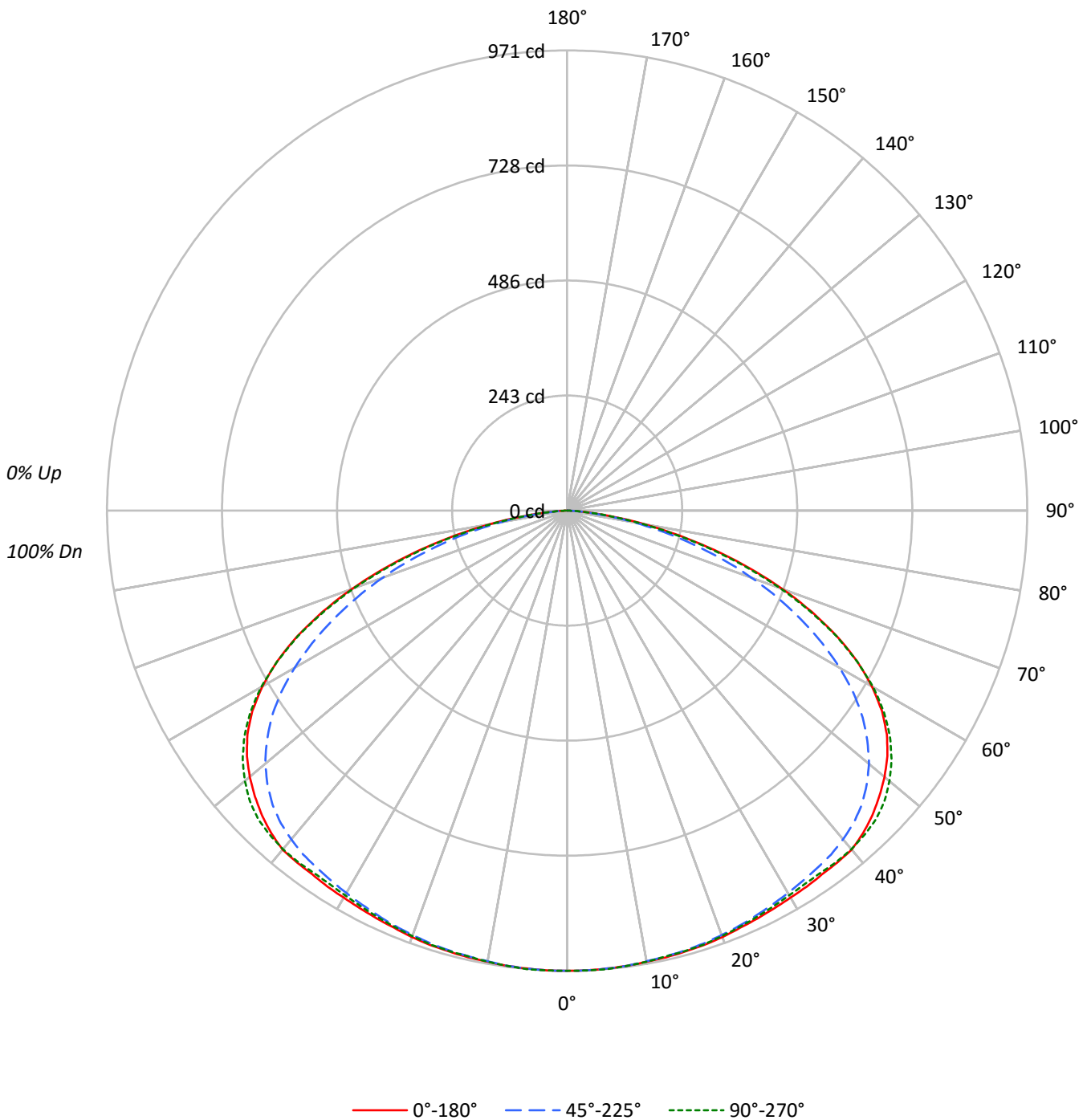
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9779	9779	9779
5°	9804	9804	9816
10°	9884	9872	9884
15°	10042	10018	10030
20°	10262	10213	10237
25°	10552	10477	10514
30°	10964	10833	10899
35°	11523	11315	11467
40°	12277	11906	12262
45°	12962	12514	13123
50°	13696	13025	13907
55°	14458	13370	14597
60°	14952	13386	15019
65°	14979	12992	14924
70°	14228	12206	14063
75°	12492	10737	12185
80°	9602	8298	9278
85°	5072	4171	4818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.5
10°-20°	272.3	7.3
20°-30°	437.4	11.7
30°-40°	583.0	15.6
40°-50°	691.9	18.5
50°-60°	707.2	18.9
60°-70°	576.6	15.4
70°-80°	314.5	8.4
80°-90°	58.6	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°	802.2	21.5
0°-40°	1385.1	37.1
0°-60°	2784.2	74.6
0°-90°	3733.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	970	970	970	971	93
15°	963	962	961	961	962	273
25°	950	946	943	945	946	439
35°	937	931	920	927	933	589
45°	910	895	879	902	922	703
55°	824	792	762	799	832	733
65°	629	587	545	586	626	617
75°	321	297	276	297	313	340
85°	44	42	36	41	42	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.2	971.2	971.2	971.2	971.2
2.5°	971.2	971.2	971.2	971.2	971.2
5°	970.0	970.0	970.0	970.0	971.2
7.5°	968.9	968.9	968.9	968.9	968.9
10°	966.7	966.7	965.5	965.5	966.7
12.5°	965.5	964.4	963.3	963.3	963.3
15°	963.3	962.2	961.0	961.0	962.2
17.5°	961.0	958.8	957.7	957.7	959.9
20°	957.7	954.3	953.1	954.3	955.4
22.5°	953.1	950.9	948.6	949.8	950.9
25°	949.8	946.4	943.0	945.3	946.4
27.5°	946.4	941.9	937.4	939.6	941.9
30°	943.0	937.4	931.7	934.0	937.4
32.5°	940.8	934.0	926.1	930.6	934.0
35°	937.4	930.6	920.5	927.2	932.9
37.5°	936.2	926.1	914.8	923.9	934.0
40°	934.0	919.3	905.8	920.5	932.9
42.5°	923.9	909.2	894.6	912.6	928.4
45°	910.3	894.6	878.8	902.4	921.6
47.5°	893.4	876.5	857.4	885.5	908.1
50°	874.3	852.9	831.5	861.9	887.8
52.5°	851.7	824.7	798.8	833.7	863.0
55°	823.6	792.0	761.6	798.8	831.5
57.5°	787.5	752.6	716.5	757.1	793.2
60°	742.5	705.3	664.7	706.4	745.8
62.5°	690.6	648.9	607.3	651.2	689.5
65°	628.7	587.0	545.3	585.9	626.4
67.5°	558.8	518.3	481.1	517.1	554.3
70°	483.3	447.3	414.6	445.0	477.7
72.5°	403.3	372.9	345.9	371.8	395.5
75°	321.1	297.4	276.0	297.4	313.2
77.5°	241.1	223.1	208.4	225.3	234.3
80°	165.6	154.4	143.1	155.5	160.0
82.5°	98.0	93.5	84.5	92.4	94.6
85°	43.9	41.7	36.1	40.6	41.7
87.5°	7.9	6.8	5.6	6.8	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)