

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SHAPER

Report Number: 253P238

Luminaire Tested: **1250-XX-36-HAL/3/150-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P238
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1250-XX-36-HAL/3/150-T5C/1/40
Description: SHAPER 36 INCH 1250 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: THREE 150 WATT HALOGEN DC BAY AND ONE 40 WATTS T5 CIRCLINE
(3)150Q -2700 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

Summary

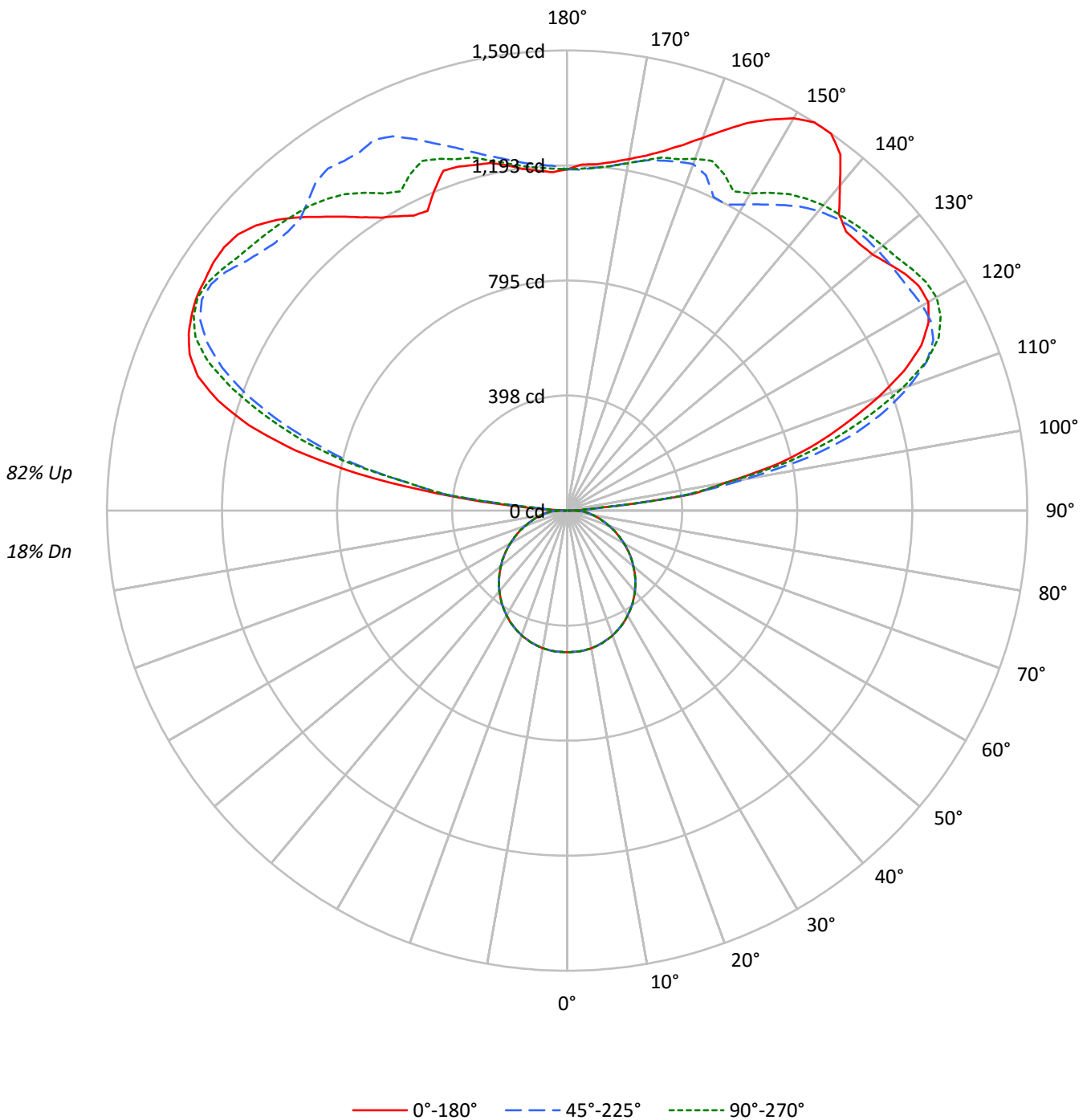
Lumens per Lamp: 11400 (1 lamp)
Luminaire Lumens: 8412.0 lumens
Efficiency: 73.8%
Efficacy: 195.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.52')
CIE Type: Semi-Indirect

Input Watts (W): 43
Input Voltage (V): NR
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	73	73	73	73	65	65	65	65	48	48	48	33	33	33	20	20	20	13
1	67	64	61	58	59	56	54	52	42	40	39	29	28	27	17	17	16	11
2	61	55	51	47	53	49	45	42	37	34	32	25	24	23	15	14	13	9
3	55	48	43	39	48	43	38	35	32	29	27	22	20	19	13	12	11	7
4	50	43	37	33	44	38	33	29	28	25	23	20	18	16	12	11	10	6
5	46	38	32	28	40	33	29	25	25	22	19	18	15	14	10	9	8	5
6	42	34	28	24	37	30	25	22	23	19	17	16	14	12	9	8	7	5
7	39	30	25	21	34	27	22	19	20	17	15	14	12	10	8	7	6	4
8	36	27	22	18	32	24	20	16	18	15	13	13	11	9	8	7	6	4
9	33	25	20	16	29	22	18	14	17	14	11	12	10	8	7	6	5	3
10	31	23	18	14	27	20	16	13	15	12	10	11	9	7	7	5	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	745	745	745
5°	732	732	732
10°	719	719	719
15°	704	704	704
20°	688	688	688
25°	672	672	672
30°	652	652	652
35°	633	633	633
40°	610	610	610
45°	587	587	587
50°	561	561	561
55°	533	533	533
60°	500	500	500
65°	464	464	464
70°	427	427	427
75°	390	390	390
80°	354	354	354
85°	322	322	322



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.4	0.6	0.4
10°-20°	133.5	1.6	1.2
20°-30°	203.1	2.4	1.8
30°-40°	245.8	2.9	2.2
40°-50°	256.7	3.1	2.3
50°-60°	235.8	2.8	2.1
60°-70°	188.3	2.2	1.7
70°-80°	128.2	1.5	1.1
80°-90°	66.1	0.8	0.6
90°-100°	240.7	2.9	2.1
100°-110°	1006.9	12.0	8.8
110°-120°	1361.3	16.2	11.9
120°-130°	1287.5	15.3	11.3
130°-140°	1075.7	12.8	9.4
140°-150°	855.6	10.2	7.5
150°-160°	606.3	7.2	5.3
160°-170°	359.6	4.3	3.2
170°-180°	114.7	1.4	1.0
0°-30°	382.9	4.6	3.4
0°-40°	628.7	7.5	5.5
0°-60°	1121.2	13.3	9.8
0°-90°	1503.7	17.9	13.2
90°-120°	2608.9	31.0	22.9
90°-150°	5827.6	69.3	51.1
90°-180°	6908.0	82.1	60.6
0°-180°	8412.0	100.0	73.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	488	488	488	488	488	46
15°	473	473	473	473	473	133
25°	441	441	441	441	441	203
35°	393	393	393	393	393	246
45°	333	333	333	333	333	257
55°	264	264	264	264	264	236
65°	190	190	190	190	190	188
75°	121	121	121	121	121	128
85°	65	65	65	65	65	58
90°	3	1	4	2	2	15
95°	104	127	107	93	187	229
105°	891	1030	954	908	1138	925
115°	1350	1396	1417	1372	1443	1316
125°	1426	1405	1455	1439	1493	1274
135°	1363	1387	1402	1364	1420	1072
145°	1590	1289	1335	1442	1237	980
155°	1478	1196	1283	1427	1142	684
165°	1286	1252	1263	1284	1236	368
175°	1201	1190	1189	1199	1179	116
180°	1179	1179	1179	1179	1179	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	489	489	489	489	489	489	489	489	489
2.5°	489	489	489	489	489	489	489	489	489
5°	488	488	488	488	488	488	488	488	488
7.5°	486	486	486	486	486	486	486	486	486
10°	483	483	483	483	483	483	483	483	483
12.5°	478	478	478	478	478	478	478	478	478
15°	473	473	473	473	473	473	473	473	473
17.5°	466	466	466	466	466	466	466	466	466
20°	459	459	459	459	459	459	459	459	459
22.5°	450	450	450	450	450	450	450	450	450
25°	441	441	441	441	441	441	441	441	441
27.5°	430	430	430	430	430	430	430	430	430
30°	418	418	418	418	418	418	418	418	418
32.5°	406	406	406	406	406	406	406	406	406
35°	393	393	393	393	393	393	393	393	393
37.5°	379	379	379	379	379	379	379	379	379
40°	364	364	364	364	364	364	364	364	364
42.5°	349	349	349	349	349	349	349	349	349
45°	333	333	333	333	333	333	333	333	333
47.5°	316	316	316	316	316	316	316	316	316
50°	299	299	299	299	299	299	299	299	299
52.5°	282	282	282	282	282	282	282	282	282
55°	264	264	264	264	264	264	264	264	264
57.5°	245	245	245	245	245	245	245	245	245
60°	227	227	227	227	227	227	227	227	227
62.5°	208	208	208	208	208	208	208	208	208
65°	190	190	190	190	190	190	190	190	190
67.5°	172	172	172	172	172	172	172	172	172
70°	154	154	154	154	154	154	154	154	154
72.5°	137	137	137	137	137	137	137	137	137
75°	121	121	121	121	121	121	121	121	121
77.5°	105	105	105	105	105	105	105	105	105
80°	91	91	91	91	91	91	91	91	91
82.5°	77	77	77	77	77	77	77	77	77
85°	65	65	65	65	65	65	65	65	65
87.5°	54	54	54	54	54	54	54	54	54
90°	3	2	1	3	4	3	2	1	2
92.5°	50	44	37	37	38	46	46	40	32
95°	104	89	127	176	107	112	93	103	187
97.5°	436	413	409	455	418	437	420	398	450
100°	557	569	620	710	562	556	564	581	735
102.5°	746	771	860	932	787	746	760	816	963
105°	891	920	1030	1096	954	891	908	980	1138
107.5°	1017	1074	1156	1229	1097	1020	1052	1116	1265
110°	1143	1206	1258	1333	1230	1149	1183	1228	1358



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1259	1307	1345	1400	1342	1265	1290	1324	1412
115°	1350	1382	1396	1440	1417	1355	1372	1383	1443
117.5°	1408	1435	1417	1463	1455	1416	1430	1408	1463
120°	1441	1458	1417	1477	1474	1450	1458	1408	1478
122.5°	1442	1455	1410	1479	1470	1454	1458	1397	1484
125°	1426	1436	1405	1482	1455	1443	1439	1385	1493
127.5°	1400	1408	1403	1479	1436	1420	1408	1379	1494
130°	1377	1387	1400	1469	1424	1401	1386	1374	1485
132.5°	1367	1371	1396	1446	1413	1391	1369	1375	1458
135°	1363	1366	1387	1417	1402	1385	1364	1375	1420
137.5°	1390	1361	1372	1382	1389	1398	1366	1371	1374
140°	1466	1368	1351	1341	1377	1442	1393	1362	1325
142.5°	1551	1380	1324	1300	1358	1493	1428	1343	1280
145°	1590	1381	1289	1257	1335	1512	1442	1316	1237
147.5°	1590	1367	1254	1219	1302	1502	1433	1285	1200
150°	1565	1362	1221	1188	1265	1481	1431	1250	1174
152.5°	1523	1383	1191	1160	1244	1463	1444	1223	1149
155°	1478	1387	1196	1159	1283	1436	1427	1240	1142
157.5°	1423	1367	1254	1217	1308	1391	1390	1287	1198
160°	1370	1334	1274	1256	1293	1347	1351	1288	1250
162.5°	1324	1307	1264	1249	1273	1310	1317	1274	1246
165°	1286	1279	1252	1239	1263	1277	1284	1260	1236
167.5°	1256	1252	1239	1229	1239	1249	1255	1243	1230
170°	1233	1231	1219	1210	1219	1227	1233	1222	1212
172.5°	1215	1210	1202	1191	1201	1209	1213	1206	1191
175°	1201	1197	1190	1179	1189	1196	1199	1193	1179
177.5°	1197	1189	1179	1170	1183	1192	1193	1182	1170
180°	1179	1179	1179	1179	1179	1179	1179	1179	1179

(END OF REPORT)